



117158

DATE: September 13, 2004  
TO: Don Bussey, U. S. EPA/ERTC Work Assignment Manager  
THROUGH: Parry Bhambra, REAC Operations Section Leader  
FROM: Ken Woodruff, REAC Task Leader  
SUBJECT: MONITOR WELL SAMPLING -WESTBAY MULTI-LEVEL INSTALLATIONS,  
CAYUGA COUNTY, NEW YORK  
WORK ASSIGNMENT # EAC00024 - TRIP REPORT

#### PURPOSE

Under this Work Assignment (WA), Response Engineering and Analytical Contract (REAC) staff assisted personnel of the Environmental Protection Agency/Environmental Response Team Center (EPA/ERTC) and the United States Geological Survey (USGS) Water Resources Division in sampling groundwater monitor wells equipped with Westbay multi-level sampling systems. The monitor wells were installed as part of a groundwater contamination plume investigation near the City of Auburn, New York (NY).

#### BACKGROUND

The work site consists of approximately 2.5 square miles of predominantly farm to light residential land located southwest of Auburn, NY. Under the previous contract, eleven groundwater monitor wells were installed at various locations within the site to depths ranging from 187 feet to 250 feet below ground surface (bgs). Three abandoned residential wells were also converted to monitor wells under agreements with the respective homeowners. The monitor wells were generally completed in a single geologic horizon through isolation of the zone by either casing placement or by a single packer assembly and were intended to monitor an extensive groundwater contamination plume containing volatile organic compounds (VOCs), mainly trichloroethylene (TCE), and cis-1,2-dichloroethene (cis-1,2-DCE). Earlier investigations conducted under the direction of the New York State Department of Environmental Conservation (NYSDEC) indicated that the plume extends from just west of Auburn, approximately eight miles southwest to the Village of Union Springs, NY.

Additional work carried out by USGS personnel, under an interagency agreement with the EPA, helped to refine the geological framework. The USGS study indicated that the hydrogeology of the site and complexities in the groundwater flow system that affect contaminant distribution could not be adequately defined by the current monitor well construction. To understand groundwater flow paths and contaminant distribution more comprehensively, it was necessary to isolate and monitor multiple depth zones. Based on an extensive review of groundwater monitoring requirements and existing technology by the USGS, REAC

staff wrote specifications for installation of multi-level sampling systems in the existing monitor wells. A contract was subsequently awarded to Westbay Instruments™ (Westbay) because of their ability to meet all necessary technical requirements. During April 2003, the systems were installed in twelve of the fourteen available monitor wells. Westbay systems could not be installed in monitor well EPA-11 and in one of the converted residential wells because of partial borehole collapse and well construction problems respectively. Six to nine zones were isolated in each well by means of hydraulic packer assemblies. During May 2004, each Westbay installation was initially purged in preparation for the first groundwater sampling event.

## ACTIVITIES AND OBSERVATIONS

### Groundwater Sampling

During July 7, 2004 through July 19, 2004, ERTC, USGS, and REAC personnel completed the first quarterly groundwater sampling of the Westbay installations. A Westbay software program was used to control and document the sampling process including the presampling set-up procedures. To initiate each sampling run, a clean 250-milliliter (mL) stainless steel sample container was attached to the bottom of the Westbay MOSDAX sampler tool which in turn mates through a cablehead to a cable and winch assembly. The cable provides not only mechanical support for the sampling tool and container but also is used to route electrical commands to the sampling tool. Before lowering into the well, the sample container was placed under a partial vacuum by evacuating most of the air with a small hand pump. The sampling tool and container were then lowered to the desired sampling port, and the sampling tool was aligned with the sampling port by means of specially designed grooves in the casing coupling located just above the sampling port. Prior to sampling, formation pressure was measured by activating a backing shoe that pushes the sampling probe against the sampling port valve on the Westbay casing thus opening the valve to the formation. Pressure is measured by a transducer in the sampling tool and recorded by the software program. A second sampling valve within the tool was next opened, allowing formation water to flow to the sample container. The transient pressure readings during filling of the sample container were plotted by the software program and provided an indication of the rate of filling of the sample container and thus a qualitative measure of formation hydraulic conductivity. Once the transient pressure readings reached formation pressure, indicating that the sample container was full, the tool and container were retrieved and the groundwater samples were transferred directly into 40-mL vials by opening a bottom valve on the sample container. The first few milliliters of sample from the sample container were discarded to avoid any possibility of including residual water from the casing.

For each groundwater sample, a separate aliquot was also collected from the sample container for measurement of specific conductivity. Specific conductivity values are often indicative of groundwater from a specific geologic unit. In each monitor well, sampling proceeded from the bottom sampling port to the top port. Preliminary work by the USGS indicated that some zones in some of the monitor wells were either dry or yielded little groundwater. No attempt was made to sample the zones considered to be dry. The zone designations corresponding to specific geologic units (for all zones sampled) and the sampling schedule are provided in Table 1. Zone pressures and corresponding head values calculated by the USGS staff are given in Appendix A.

To determine the effectiveness of pre-sampling purging, one water sample was also collected in each monitor well from the column of water inside the Westbay casing. The sampling tool was lowered to the depth of the D3 sampling port and the sample container valve was then opened with the

formation sampling port closed, ensuring that only water from inside the casing was collected. These samples are designated as "QA-MP" in the analytical data tables.

Before each sample was taken, the sampling tool and container were decontaminated with deionized water. Rinsate blanks were taken each day of sampling whereas duplicate samples and samples for matrix spike (MS) and matrix spike duplicates (MSD) were collected for 10 percent of the total field samples. Duplicate samples were collected as a separate sample and were not aliquots from the same sample container. All field and sampling information data were entered into a Scribe data base that was used to generate sample labels and chain-of custody records. Samples were sent on ice to the REAC Laboratory in Edison, New Jersey for analysis of VOCs.

Detectable levels of TCE, cis-1,2-DCE, trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride were found in samples from monitor wells EPA-1, EPA-2, EPA-9, CY204, and CY205. Wells CY204 and CY205 are domestic wells that have been converted to groundwater monitor wells. In all wells where VOCs were detected, concentrations were generally highest in the D3 depth zone; the highest concentrations of VOCs were generally found in samples from Monitor Well EPA-1. The Final Analytical Report providing the detailed analyses is attached as Appendix B.

#### Dive Operations

On July 13, 2004 members of the ERTC/REAC dive team completed a reconnaissance survey of the Cayuga Lake bottom just offshore from Union Springs, NY. The purpose was to look for evidence of groundwater discharge to the lake and sample the discharge if found. Dive personnel subsequently located a significant spring discharge with visible outflow, just offshore from Union Springs in approximately 4 to 5 feet of water. The discharge was documented on a digital video camera and a sample of water from the spring was collected directly into 40-mL vials and analyzed for VOCs. Preliminary analytical results showed no evidence of VOCs in the sample.

#### CONCLUSIONS

No major problems were encountered during the first groundwater sampling event at the Cayuga County Westbay Sampling site. Some of the shallow zones isolated by the Westbay systems were either dry or did not yield sufficient water for sampling. These zones will be reassessed by USGS staff to determine their viability for sampling during the next sampling event.

#### ADDITIONAL WORK

The second quarterly sampling event is presently scheduled for October 6 through 14, 2004. EPA, USGS, and REAC staff will participate.

#### REFERENCES

Lockheed Martin. 2003. Final Report, Volatile Organic Compound Source Area Assessment, Cayuga County Groundwater Contamination Site, Cayuga County, New York. U. S. EPA Contract No. 68-C9-223. Lockheed Martin Work Order No. R1A00212.

Lockheed Martin. 2004. Installation of Westbay Groundwater Sampling Systems, Multi-Level Installations,

Cayuga County, New York - Trip Report. U. S. EPA Contract No. 68-C9-223. Lockheed Martin Work Order No. R1A00345.

## Tables

**TABLES**

Geologic Unit Descriptions

Cayuga County-Westbay Sampling site

Trip Report

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TABLE 1  
 Geologic Unit Designations  
 Cayuga County-Westbay Sampling Site  
 September 2004

Well No.	Zone	Geologic Unit	Date Sampled	Well No.	Zone	Geologic Unit	Date Sampled
EPA-1	S2	Middle Onondaga	7/15/2004	EPA-8	S1	Marcellus	7/9/2004
	S3	Lower Onondaga	7/15/2004		S2	Upper Onondaga	7/9/2004
	D1	Rondout	7/15/2004		I1	Upper Manlius	7/9/2004
	D2	Cobleskill	7/15/2004		I2	Lower Manlius	7/9/2004
	D3	Forge Hollow (gypsum unit)	7/15/2004		D1-A	Upper Rondout	7/9/2004
EPA-2	I2	Lower Manlius	7/15/2004		D1-B	Lower Rondout	7/9/2004
	D1	Rondout	7/15/2004		D2	Cobleskill	7/9/2004
	D2	Cobleskill	7/15/2004		D3	Forge Hollow (gypsum unit)	7/9/2004
	D3	Forge Hollow (gypsum unit)	7/15/2004	EPA-9			
					I1	Upper Manlius	7/19/2004
EPA-3	I1	Upper Manlius	7/17/2004		I2	Lower Manlius	7/19/2004
	D1	Rondout	7/17/2004		D1	Rondout	7/19/2004
	D2	Cobleskill	7/17/2004		D2	Cobleskill	7/19/2004
	D3	Forge Hollow (gypsum unit)	7/17/2004		D3	Forge Hollow (gypsum unit)	7/19/2004
EPA-4	S1	Marcellus	7/14/2004	EPA-10	S3	Lower Onondaga	7/8/2004
	S2	Upper Onondaga	7/14/2004		I1	Upper Manlius	7/8/2004
	I2	Lower Manlius	7/14/2004		I2	Lower Manlius	7/8/2004
	D1	Rondout	7/14/2004		D1	Rondout	7/8/2004
	D2	Cobleskill	7/14/2004		D2	Cobleskill	7/8/2004
	D3	Forge Hollow (gypsum unit)	7/14/2004		D3	Forge Hollow (gypsum unit)	7/8/2004
EPA-5	D1	Rondout	7/16/2004	CY204	S1	Marcellus	7/12/2004
	D2	Cobleskill	7/16/2004		I2	Lower Manlius	7/12/2004
	D3	Forge Hollow (gypsum unit)	7/16/2004		D1-A	Upper Rondout	7/12/2004
					D1-B	Lower Rondout	7/12/2004
EPA-6	I2	Lower Manlius	7/8/2004	CY205			
	D1	Rondout	7/8/2004		I2-B	Lower Manlius	7/12/2004
	D2	Cobleskill	7/8/2004		D1-A	Lower Manlius/Upper Rondout	7/12/2004
	D3	Forge Hollow (gypsum unit)	7/8/2004		D1-B	Middle Rondout	7/12/2004
EPA-7	I2	Lower Manlius	7/13/2004				
	D1	Rondout	7/13/2004				
	D2	Cobleskill	7/13/2004				
	D3	Forge Hollow (gypsum unit)	7/13/2004				

S = shallow zone

I = intermediate zone

D = deep zone



## Appendix A

# Appendix A

APPENDIX A  
Pressure and Head Values  
Cayuga County Westbay Sampling Site  
Trip Report  
September 2004

well date	zone	TOC elev (ft)	port depth (ft)	port elev (ft)	psi-atm (measured)	psi-outside (measured)	psi-atm (corrected)	psi-outside (corrected)	pressure head (ft)	total head (ft)	sample time
epa 1 7/15/2004	d3	660.45	178.3	482.15	14.145	52.90	14.18	52.87	89.27	571.4	1220
	d2	660.45	149.3	511.15	14.145	40.12	14.18	40.11	59.83	571.0	1300
	d1	660.45	123.3	537.15	14.145	28.86	14.18	28.87	33.89	571.0	1330
	s3	660.45	42.3	618.15	14.145	23.66	14.18	23.68	21.92	640.1	1355
	s2	660.45	23.3	637.15	14.145	17.00	14.18	17.03	6.58	643.7	1435
epa 2 7/15/2004	d3	660.43	191.2	469.23	14.135	60.72	14.17	60.69	107.32	576.6	915
	d2	660.43	163.2	497.23	14.135	48.68	14.17	48.66	79.57	576.8	955
	d1	660.43	136.2	524.23	14.135	36.95	14.17	36.95	52.55	576.8	1020
	i2	660.43	111.2	549.23	14.135	25.74	14.17	25.75	26.73	576.0	1045
epa 3 7/7/2004	d3	671.13	185.4	485.73	14.31	46.86	14.34	46.84	74.97	560.7	1150
	d2	671.13	158.4	512.73	14.31	36.04	14.34	36.04	50.05	562.8	1240
	d1	671.13	131.4	539.73	14.31	24.26	14.34	24.28	22.92	562.6	1310
	i1	671.13	90.4	580.73	14.31	17.52	14.34	17.55	7.39	588.1	1340
epa 4 7/14/2004	d3	672.73	194.1	478.63	14.19	50.09	14.22	50.06	82.69	561.3	1025
	d2	672.73	165.1	507.63	14.19	37.96	14.22	37.95	54.75	562.4	1125
	d1	672.73	147.1	525.63	14.19	29.81	14.22	29.82	35.98	561.6	1145
	i2	672.73	122.1	550.63	14.19	18.73	14.22	18.76	10.46	561.1	1205
	s1	672.73	17.1	655.63	14.19	17.75	14.22	17.78	8.20	663.8	1235
epa 5 7/16/2004	d3	677.75	187.9	489.85	14.21	49.11	14.24	49.09	80.39	570.2	915
	d2	677.75	156.9	520.85	14.21	35.43	14.24	35.43	48.88	569.7	1005
	d1	677.75	132.9	544.85	14.21	24.99	14.24	25.01	24.83	569.7	1025
epa 6 7/8/2004	d3	721.18	239.8	481.38	14.275	49.22	14.31	49.20	80.49	561.9	1005
	d2	721.18	217.8	503.38	14.275	39.70	14.31	39.69	58.56	561.9	1030
	d1	721.18	190.8	530.38	14.275	27.99	14.31	28.00	31.59	562.0	1050
	i2	721.18	165.8	555.38	14.275	17.76	14.31	17.79	8.03	563.4	1120

well date	zone	TOC elev (ft)	port depth (ft)	port elev (ft)	psi-atm (measured)	psi-outside (measured)	psi-atm (corrected)	psi-outside (corrected)	pressure head (ft)	<b>total head</b> (ft)	sample time
<b>epa 7</b> 7/13/2004	d3	692.38	231.2	461.18	14.31	56.75	14.34	56.72	97.76	558.9	915
	d2	692.38	212.2	480.18	14.31	49.36	14.34	49.34	80.73	560.9	1020
	d1	692.38	190.2	502.18	14.31	38.96	14.34	38.95	56.78	559.0	1055
	i2	692.38	163.2	529.18	14.31	27.27	14.34	27.28	29.85	559.0	1145
	i1	692.38	141.2	551.18	14.31	19.47	14.34	19.49	11.89	563.1	1220
	s1	692.38	61.2	631.18	14.31	16.43	14.34	16.46	4.88	636.1	1250
<b>epa 8</b> 7/9/2004	d3	680.12	228.1	452.02	14.38	62.63	14.41	62.60	111.16	563.2	900
	d2	680.12	208.1	472.02	14.38	53.67	14.41	53.64	90.50	562.5	925
	d1-b	680.12	194.1	486.02	14.38	47.58	14.41	47.56	76.47	562.5	950
	d1-a	680.12	182.1	498.02	14.38	42.35	14.41	42.34	64.42	562.4	1020
	i2	680.12	148.1	532.02	14.38	27.98	14.41	27.99	31.32	563.3	1050
	i1	680.12	126.1	554.02	14.38	18.53	14.41	18.56	9.56	563.6	1120
	s1	680.12	40.1	640.02	14.38	24.22	14.41	24.24	22.66	662.7	1230
<b>epa-9</b> 7/19/2004	d3	664.15	180.5	483.65	14.305	50.97	14.34	50.94	84.45	568.1	850
	d2	664.15	152.5	511.65	14.305	38.66	14.34	38.65	56.10	567.7	940
	d1	664.15	129.5	534.65	14.305	28.64	14.34	28.65	33.02	567.7	1005
	i2	664.15	111.5	552.65	14.305	20.84	14.34	20.86	15.05	567.7	1025
	i1	664.15	101.5	562.65	14.305	16.05	14.34	16.08	4.02	566.7	1045
<b>epa 10</b> 7/8/2004	d3	704.57	252.7	451.87	14.29	60.66	14.32	60.63	106.83	558.7	1310
	d2	704.57	218.7	485.87	14.29	45.73	14.32	45.71	72.42	558.3	1350
	d1	704.57	198.7	505.87	14.29	37.03	14.32	37.03	52.38	558.2	1410
	i2	704.57	173.7	530.87	14.29	27.47	14.32	27.48	30.36	561.2	1440
	i1	704.57	151.7	552.87	14.29	17.94	14.32	17.97	8.41	561.3	1510
	s3	704.57	141.7	562.87	14.29	37.64	14.32	37.63	53.78	616.7	1540
<b>cy-204</b> 7/12/2004	d1-b	738.77	217.7	521.07						552.6	910
	d1-a	738.77	205.7	533.07	14.34	22.85	14.37	22.87	19.60	552.7	945
	i2	738.77	188.7	550.07	14.34	15.44	14.37	15.47	2.53	552.6	1010
	s1	738.77	79.7	659.07	14.34	24.04	14.37	24.06	22.34	681.4	1040
<b>cy-205</b> 7/12/2004	d1-b	720.76	219.3	501.46						550.9	1210
	d1-a	720.76	201.3	519.46	14.345	28.00	14.38	28.01	31.45	550.9	1345
	i2-b	720.76	184.3	536.46	14.345	20.63	14.38	20.65	14.48	550.9	1435

## Appendix B

# Appendix B

APPENDIX B  
Final Analytical Report  
Cayuga County Westbay Sampling Site  
Trip Report  
September 2004

ANALYTICAL REPORT

Prepared by  
LOCKHEED MARTIN, Inc.

Cayuga County Westbay Sampling Site  
Auburn, NY

September 2004

EPA Work Assignment No. 0-024  
LOCKHEED MARTIN Work Order EAC00024  
EPA Contract No. EP-C-04-032

Submitted to  
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Appendices will be furnished on request.

## Introduction

REAC in response to WA 0-024, provided analytical support for environmental samples collected from Cayuga County Westbay Sampling Site, located in Auburn, NY as described in the following table. The support also included QA/QC, data review, and preparation of an analytical report containing a summary of the analytical methods, the results, and the QA/QC results.

The samples were treated with procedures consistent with those specified in SOP #1008.

COC #	Number of Samples	Sampling Date	Date Received	Matrix	Analysis	Laboratory	Data Package
0-024-0001	7	7/7/2004	7/9/2004	Water	VOC	REAC	N 221
0-024-0002	12	7/8/2004	7/11/2004	Water	VOC	REAC	N 221
0-024-0002	9	7/9/2004	7/11/2004	Water	VOC	REAC	N 221
0-024-0002	1	7/10/2004	7/11/2004	Water	VOC	REAC	N 221
0-024-0004	10	7/12/2004	7/17/2004	Water	VOC	REAC	N 221
0-024-0005	11	7/13/2004	7/15/2004	Water	VOC	REAC	N 221
0-024-0006	9	7/14/2004	7/15/2004	Water	VOC	REAC	N 221
0-024-0007	14	7/15/2004	7/18/2004	Water	VOC	REAC	N 221
0-024-0008	1	7/15/2004	7/18/2004	Water	VOC	REAC	N 221
0-024-0008	6	7/16/2004	7/18/2004	Water	VOC	REAC	N 221
0-024-0009	8	7/19/2004	7/20/2004	Water	VOC	REAC	N 221
14923	1	7/13/2004	7/15/2004	Water	VOC	REAC	N 221

## Case Narrative

The data in this report have been validated to two significant figures. Any other representation of the data is the responsibility of the user. Data validation flags have been included in the results table.

### VOC in Water Package N 221

Method blank (WMBLK 070904-1 contained 5.2 µg/L acetone. The acetone concentration in samples 0-024-0001 and 0-024-0007 should be regarded as not detected.

The trip blank, sample 0-024-0007, contained 7.4 µg/L chloroform, 3.7 µg/L bromodichloromethane and 1.1 µg/L dibromochloromethane. The data are not affected because these analytes were not detected in the associated samples (samples 0-024-0001 through 0-024-0006).

The trip blank, sample 0-024-0036, contained 4.4 µg/L acetone, 3.7 µg/L chloroform and 2.4 µg/L bromodichloromethane. The data affected as follows: The acetone concentration in samples 0-024-0015, 0-024-0018 and 0-024-0031 should be regarded as not detected. The chloroform and bromodichloromethane concentration in samples 0-024-0015 and 0-024-0031 should be regarded as not detected. The chloroform concentration in sample 0-024-0011 should be regarded as not detected.

The trip blank, sample 0-024-0047, contained 3.0 µg/L acetone, 6.3 µg/L chloroform, 3.4 µg/L bromodichloromethane and 1.1 µg/L dibromochloromethane. The data affected as follows: The acetone concentration in sample 0-024-0042 should be regarded as not detected. The chloroform concentration in samples 0-024-0042 and 0-024-0043 should be regarded as not detected. The bromodichloromethane concentration in sample 0-024-0042 should be regarded as not detected.

The trip blank, sample 0-024-0058, contained 4.9 µg/L acetone, 4.8 µg/L chloroform, 2.9 µg/L bromodichloromethane. The acetone, chloroform and bromodichloromethane concentrations in sample 0-024-0056 should be regarded as not detected.

The trip blank, sample 0-024-0068, contained 2.9 µg/L acetone, 6.1 µg/L chloroform and 3.2 µg/L bromodichloromethane. The acetone, chloroform and bromodichloromethane concentrations in sample 0-024-0060 should be regarded as not detected.

The trip blank, sample 0-024-0092, contained 6.8 µg/L chloroform, 3.5 µg/L bromodichloromethane and 1.0 µg/L dibromochloromethane. The data affected as follows: The chloroform and bromodichloromethane concentrations in samples 0-024-0069, 0-024-0083 and 0-024-0084 should be regarded as not detected. The chloroform concentrations in samples 0-024-0075 and 0-024-0089 should be regarded as not detected.

The acceptable QC limits were exceeded for the relative response factor for 1,2-dibromo-3-chloropropane (0.047%) in the continuing calibration check standard of 7/12/04 on system "B". The results of the 1,2-dibromo-3-chloropropane analysis for samples 0-024-0009 through 0-024-0012 and WMBLK 071204-1 should be regarded as rejected.

The acceptable QC limits were exceeded for the percent difference for acetone (29%) in the continuing calibration check standard of 7/12/04 on system "B". The data are not affected because acetone was not detected in the associated samples (0-024-0009 through 0-024-0012).

The acceptable QC limits were exceeded for the percent difference for vinyl chloride (42%) and 2,2-dichloropropane (28%) in the continuing calibration check standard of 7/13/04 (12:14 AM) on system "A". The data are not affected because these analytes were not detected in the associated samples (WMBLK 071304-2 and 0-024-0029 through 0-024-0035, 0-024-0008, 0-024-0013 and 0-024-0021 ).

The acceptable QC limits were exceeded for the percent difference for 2,2-dichloropropane (27%) in the continuing calibration check standard of 7/14/04 (9:51 AM) on system "A". The data are not affected because these analytes were not detected in the associated samples (WMBLK 071404-2 and 0-024-0038 through 0-024-0047).

The acceptable QC limits were exceeded for the percent difference for vinyl chloride (27%) in the continuing calibration check standard of 7/16/04 (4:16 AM) on system "A". The data are not affected because these analytes were not detected in the associated samples (WMBLK 071604-2 and 0-024-0051 through 0-024-0057, 27030, 0-024-0048, 0-024-0049, 0-024-0060, 0-024-0067 and 0-024-0068).

The acceptable QC limits were exceeded for the percent difference for vinyl chloride (27%) and hexachlorobutadiene (26%) in the continuing calibration check standard of 7/20/04 (4:58 AM) on system "A". The data are not affected because these analytes were not detected in the associated samples (WMBLK 072004-2 and 0-024-0050, 0-024-0062, 0-024-0071 and 0-024-0081).

The acceptable QC limits were exceeded for the percent difference for vinyl chloride (31%) and acetone (27%) in the continuing calibration check standard of 7/20/04 (19:18) on system "A". The acetone concentrations in samples 0-024-0083, 0-024-0084 and 0-024-0095 should be regarded as estimated. The vinyl chloride concentration in samples 0-024-0083 through 0-024-0090, 0-024-0092 through 0-024-0097 and WMBLK-072004-4 should be regarded as not detected.

### Summary of Abbreviations

AA	Atomic Absorption				
B	The analyte was found in the blank				
BFB	Bromofluorobenzene				
C	Centigrade				
cont.	Continued				
D	(Surrogate Table) this value is from a diluted sample and was not calculated (Result Table) this result was obtained from a diluted sample				
Dioxin and/or					
PCDD and PCDF	Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans				
CLP	Contract Laboratory Protocol				
COC	Chain of Custody				
CONC	Concentration				
CRDL	Contract Required Detection Limit				
CRQL	Contract Required Quantitation Limit				
DFTPP	Decafluorotriphenylphosphine				
DL	Detection Limit				
E	The value is greater than the highest linear standard and is estimated				
EMPC	Estimated maximum possible concentration				
ICAP	Inductively Coupled Argon Plasma				
ISTD	Internal Standard				
J	The value is below the method detection limit and is estimated				
LCS	Laboratory Control Sample				
LCSD	Laboratory Control Sample Duplicate				
MDL	Method Detection Limit				
MI	Matrix Interference				
MS (BS)	Matrix Spike (Blank Spike)				
MSD (BSD)	Matrix Spike Duplicate (Blank Spike Duplicate)				
MW	Molecular Weight				
NA	either Not Applicable or Not Available				
NC	Not Calculated				
NR	Not Requested				
NS	Not Spiked				
% D	Percent Difference				
% REC	Percent Recovery				
PPB	Parts per billion				
PPBV	Parts per billion by volume				
PPMV	Parts per million by volume				
PQL	Practical Quantitation Limit				
QA/QC	Quality Assurance/Quality Control				
QL	Quantitation Limit				
RPD	Relative Percent Difference				
RSD	Relative Standard Deviation				
SIM	Selected Ion Monitoring				
TCLP	Toxicity Characteristic Leaching Procedure				
TIC	Tentatively Identified Compound				
U	Denotes not detected				
W	Weathered analyte; Aroclor pattern displays a degradation of earlier eluting peaks				
$m^3$	cubic meter	kg	kilogram	$\mu g$	microgram
L	liter	g	gram	pg	picogram
mL	milliliter	mg	milligram	ng	nanogram
$\mu L$	microliter				
*	denotes a value that exceeds the acceptable QC limit				
	Abbreviations that are specific to a particular table are explained in footnotes on				
	that table				

Revision 7/16/03

## Analytical Procedure for VOC in Water

A modified 524.2 method for the analysis of Volatile Organic Compounds in water was used. Samples were purged, trapped, and desorbed to a GC/MS system. Prior to purging, the samples were spiked with a three component surrogate mixture consisting of toluene-d<sub>8</sub>, 4-bromofluorobenzene and 1,2-dichloroethane-d<sub>4</sub> and a three component internal standard mixture consisting of bromochloromethane, 1,4-difluorobenzene, and chlorobenzene-d<sub>5</sub>.

The purge and trap unit consisted of: A Tekmar concentrator (3000 series) equipped with an Archon autosampler (Dynateck Corp.) and a VOCARB 3000 trap (Supelco).

The purge and trap instrument conditions were:

Purge	10 min at 35° C
Dry Purge	2 min at 35° C
Desorb Preheat	245° C
Desorb	4 min at 250° C
Purge Flow Rate	40 mL/min
Bake	10 min at 260° C

A Hewlett Packard 5973 GC/MSD equipped with an HP Chem Station data system was used to analyze the data.

The instrument conditions were:

Column:	30 meter x 0.25 mm ID, RTx-Volatiles (Restek Corp.) column with 3.0 µm film thickness.
Temperature:	4 min at 40° C 9° C/min to 165° C, hold for 2 min. 12° C/min to 220° C, hold for 7 min.
Flow Rate	Helium at 1.0 mL/min.
Mass Spectrometer:	Electron Impact Ionization at a nominal electron energy of 70 electron volts, scanning from 35-350 amu at one scan/sec.

Computer: Preprogrammed to plot Extracted Ion Current Profile (EICP); capable of integrating ions and plotting abundances vs time or scan number. A library search (NIST-98) for tentatively identified compounds was performed on samples.

The GC/MS system was calibrated using 6 VOC standards at 5, 20, 50, 100, 150, and 200 µg/L. (Exception was acetone, calibrated using 5 VOC standards-20, 50, 100, 150 and 200 µg/L) Before analysis each day, the system was tuned with 50-ng BFB and passed a continuing calibration check when analyzing a 50 µg/L standard mixture in which the responses were evaluated by comparison to the average responses of the calibration curve.

The results are in Table 1.1; the tentatively identified compounds are listed in Table 1.2.

The concentrations of the analytes were calculated using the following equation:

$$C_u = \frac{A_x \times I_{is} \times D}{A_{is} \times RF \text{ (or } RF_{ave})}$$

where

$C_u$	= Concentration of target analyte ( $\mu\text{g/L}$ )
$A_x$	= Area of the target analyte
$I_{is}$	= Concentration of specific internal standard ( $\mu\text{g/L}$ )
$A_{is}$	= Area of the specific internal standard
$RF$	= Response Factor
$RF_{ave}$	= average Response Factor
$D$	= Dilution factor.

The average Response Factor is used when a sample is associated with an initial calibration curve. The Response Factor is used when a sample is associated with a continuing calibration curve.

Response Factor calculation:

The response factor (RF) for each specific analyte is quantitated based on the area response from the continuing calibration check as follows:

$$RF = \frac{A_c \times I_{is}}{A_{is} \times I_c}$$

where,

$RF$	= Response factor for a specific analyte
$A_c$	= Area of the analyte in the standard
$I_{is}$	= Concentration of the specific internal standard
$A_{is}$	= Area of the specific internal standard
$I_c$	= Concentration of the analyte in the standard

$$RF_{ave} = \frac{RF_1 + \dots + RF_n}{n}$$

and

$n$  = number of Samples

Revision of 01/21/04

Table 1.1 Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0007	0-024-0001	0-024-0002	0-024-0003
Location :	070904-1	TB	EPA-3(RB)	EPA-3(D3)	EPA-3(D2)
File :	AV8358.D	AV8359.D	AV8360.D	AV8361.D	AV8362.D
Dil. Fact. :	1	1	1	1	1
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U
Chloromethane	U	2.0	U	2.0	U
Vinyl Chloride	U	1.0	U	1.0	U
Bromomethane	U	1.0	U	1.0	U
Chloroethane	U	1.0	U	1.0	U
Trichlorofluoromethane	U	1.0	U	1.0	U
Acetone	5.2 J	8.0	U	52	U
1,1-Dichloroethene	U	1.0	U	1.0	U
Methylene Chloride	U	1.0	U	1.0	U
Carbon Disulfide	U	1.0	U	1.0	U
Methyl-t-butyl Ether	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	U	1.0	U	1.0	U
1,1-Dichloroethane	U	1.0	U	1.0	U
2-Butanone	U	1.0	U	1.0	U
2,2-Dichloropropane	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	U	1.0	U	1.0	U
Chloroform	U	1.0	7.4	1.0	U
1,1-Dichloropropene	U	1.0	U	1.0	U
1,2-Dichloroethane	U	1.0	U	1.0	U
1,1,1-Trichloroethane	U	1.0	U	1.0	U
Carbon Tetrachloride	U	1.0	U	1.0	U
Benzene	U	1.0	U	1.0	U
Trichloroethene	U	1.0	U	1.0	U
1,2-Dichloropropane	U	1.0	U	1.0	U
Bromodichloromethane	U	1.0	3.7	1.0	U
Dibromomethane	U	1.0	U	1.0	U
cis-1,3-Dichloropropene	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	U	1.0	U	1.0	U
1,1,2-Trichloroethane	U	1.0	U	1.0	U
1,3-Dichloropropane	U	1.0	U	1.0	U
Dibromochloromethane	U	1.0	1.1	1.0	U
1,2-Dibromoethane	U	1.0	U	1.0	U
Bromoform	U	1.0	U	1.0	U
4-Methyl-2-Pentanone	U	1.0	U	1.0	U
Toluene	U	1.0	U	1.0	U
2-Hexanone	U	1.0	U	1.0	U
Tetrachloroethene	U	1.0	U	1.0	U
Chlorobenzene	U	1.0	U	1.0	U
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0	U
Ethylbenzene	U	1.0	U	1.0	U
p&m-Xylene	U	2.0	U	2.0	U
o-Xylene	U	1.0	U	1.0	U
Styrene	U	1.0	U	1.0	U
Isopropylbenzene	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0	U
1,2,3-Trichloropropane	U	1.0	U	1.0	U
n-Propylbenzene	U	1.0	U	1.0	U
Bromobenzene	U	1.0	U	1.0	U
1,3,5-Trimethylbenzene	U	1.0	U	1.0	U
2-Chlorotoluene	U	1.0	U	1.0	U
4-Chlorotoluene	U	1.0	U	1.0	U
tert-Butylbenzene	U	1.0	U	1.0	U
1,2,4-Trimethylbenzene	U	1.0	U	1.0	U
sec-Butylbenzene	U	1.0	U	1.0	U
p-Isopropyltoluene	U	1.0	U	1.0	U
1,3-Dichlorobenzene	U	1.0	U	1.0	U
1,4-Dichlorobenzene	U	1.0	U	1.0	U
n-Butylbenzene	U	1.0	U	1.0	U
1,2-Dichlorobenzene	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0	U
1,2,4-Trichlorobenzene	U	1.0	U	1.0	U
Hexachlorobutadiene	U	1.0	U	1.0	U
Naphthalene	U	1.0	U	1.0	U
1,2,3-Trichlorobenzene	U	1.0	U	1.0	U

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0004	0-024-0005	0-024-0006				
Location :	070904-1	EPA-3(D1)	EPA-3(I1)	EPA-3(QA-MP)				
File :	AV8358.D	AV8363.D	AV8364.D	AV8365.D				
Dil. Fact. :	1	1	1	1				
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U	1.0	U	1.0
Chloromethane	U	2.0	U	2.0	U	2.0	U	2.0
Vinyl Chloride	U	1.0	U	1.0	U	1.0	U	1.0
Bromomethane	U	1.0	U	1.0	U	1.0	U	1.0
Chloroethane	U	1.0	U	1.0	U	1.0	U	1.0
Trichlorofluoromethane	U	1.0	U	1.0	U	1.0	U	1.0
Acetone	5.2 J	8.0	U	8.0	U	8.0	U	8.0
1,1-Dichloroethene	U	1.0	U	1.0	U	1.0	U	1.0
Methylene Chloride	U	1.0	U	1.0	U	1.0	U	1.0
Carbon Disulfide	U	1.0	U	1.0	U	1.0	U	1.0
Methyl-t-butyl Ether	U	1.0	U	1.0	U	1.0	U	1.0
trans-1,2-Dichloroethene	U	1.0	U	1.0	U	1.0	U	1.0
1,1-Dichloroethane	U	1.0	U	1.0	U	1.0	U	1.0
2-Butanone	U	1.0	U	1.0	U	1.0	U	1.0
2,2-Dichloropropane	U	1.0	U	1.0	U	1.0	U	1.0
cis-1,2-Dichloroethene	U	1.0	U	1.0	U	1.0	U	1.0
Chloroform	U	1.0	U	1.0	U	1.0	U	1.0
1,1-Dichloropropene	U	1.0	U	1.0	U	1.0	U	1.0
1,2-Dichloroethane	U	1.0	U	1.0	U	1.0	U	1.0
1,1,1-Trichloroethane	U	1.0	U	1.0	U	1.0	U	1.0
Carbon Tetrachloride	U	1.0	U	1.0	U	1.0	U	1.0
Benzene	U	1.0	U	1.0	U	1.0	U	1.0
Trichloroethene	U	1.0	U	1.0	U	1.0	U	1.0
1,2-Dichloropropane	U	1.0	U	1.0	U	1.0	U	1.0
Bromodichloromethane	U	1.0	U	1.0	U	1.0	U	1.0
Dibromomethane	U	1.0	U	1.0	U	1.0	U	1.0
cis-1,3-Dichloropropene	U	1.0	U	1.0	U	1.0	U	1.0
trans-1,3-Dichloropropene	U	1.0	U	1.0	U	1.0	U	1.0
1,1,2-Trichloroethane	U	1.0	U	1.0	U	1.0	U	1.0
1,3-Dichloropropane	U	1.0	U	1.0	U	1.0	U	1.0
Dibromochloromethane	U	1.0	U	1.0	U	1.0	U	1.0
1,2-Dibromoethane	U	1.0	U	1.0	U	1.0	U	1.0
Bromoform	U	1.0	U	1.0	U	1.0	U	1.0
4-Methyl-2-Pentanone	U	1.0	U	1.0	U	1.0	U	1.0
Toluene	U	1.0	U	1.0	U	1.0	U	1.0
2-Hexanone	U	1.0	U	1.0	U	1.0	U	1.0
Tetrachloroethene	U	1.0	U	1.0	U	1.0	U	1.0
Chlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0	U	1.0	U	1.0
Ethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0
p&m-Xylene	U	2.0	U	2.0	U	2.0	U	2.0
o-Xylene	U	1.0	U	1.0	U	1.0	U	1.0
Styrene	U	1.0	U	1.0	U	1.0	U	1.0
Isopropylbenzene	U	1.0	U	1.0	U	1.0	U	1.0
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0	U	1.0	U	1.0
1,2,3-Trichloropropane	U	1.0	U	1.0	U	1.0	U	1.0
n-Propylbenzene	U	1.0	U	1.0	U	1.0	U	1.0
Bromobenzene	U	1.0	U	1.0	U	1.0	U	1.0
1,3,5-Trimethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0
2-Chlorotoluene	U	1.0	U	1.0	U	1.0	U	1.0
4-Chlorotoluene	U	1.0	U	1.0	U	1.0	U	1.0
tert-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0
1,2,4-Trimethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0
sec-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0
p-Isopropyltoluene	U	1.0	U	1.0	U	1.0	U	1.0
1,3-Dichlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0
1,4-Dichlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0
n-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0
1,2-Dichlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0	U	1.0	U	1.0
1,2,4-Trichlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0
Hexachlorobutadiene	U	1.0	U	1.0	U	1.0	U	1.0
Naphthalene	U	1.0	U	1.0	U	1.0	U	1.0
1,2,3-Trichlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0036	0-024-0014	0-024-0015	0-024-0016					
Location :	071204-1	TB	EPA-10(D1)	EPA-10(RB)	EPA-10(i2)					
File :	AV8374.D	AV8375.D	AV8376.D	AV8377.D	AV8378.D					
Dil. Fact. :	1	1	1	1	1					
Analyte	Conc. µg/L	MDL µg/L								
Dichlorodifluoromethane	U	1.0								
Chloromethane	U	2.0								
Vinyl Chloride	U	1.0								
Bromomethane	U	1.0								
Chloroethane	U	1.0								
Trichlorofluoromethane	U	1.0								
Acetone	U	8.0	4.4 J	8.0	U	8.0	U	44	U	8.0
1,1-Dichloroethene	U	1.0								
Methylene Chloride	U	1.0								
Carbon Disulfide	U	1.0								
Methyl-t-butyl Ether	U	1.0								
trans-1,2-Dichloroethene	U	1.0								
1,1-Dichloroethane	U	1.0								
2-Butanone	U	1.0								
2,2-Dichloropropane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
Chloroform	U	1.0	3.7	1.0	U	1.0	U	19	U	1.0
1,1-Dichloropropene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,1,1-Trichloroethane	U	1.0								
Carbon Tetrachloride	U	1.0								
Benzene	U	1.0								
Trichloroethene	U	1.0								
1,2-Dichloropropane	U	1.0								
Bromodichloromethane	U	1.0	2.4	1.0	U	1.0	U	12	U	1.0
Dibromomethane	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
trans-1,3-Dichloropropene	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,3-Dichloropropane	U	1.0								
Dibromochloromethane	U	1.0								
1,2-Dibromoethane	U	1.0								
Bromoform	U	1.0								
4-Methyl-2-Pentanone	U	1.0								
Toluene	U	1.0								
2-Hexanone	U	1.0								
Tetrachloroethene	U	1.0								
Chlorobenzene	U	1.0								
1,1,1,2-Tetrachloroethane	U	1.0								
Ethylbenzene	U	1.0								
p&m-Xylene	U	2.0								
o-Xylene	U	1.0								
Styrene	U	1.0								
Isopropylbenzene	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,2,3-Trichloropropane	U	1.0								
n-Propylbenzene	U	1.0								
Bromobenzene	U	1.0								
1,3,5-Trimethylbenzene	U	1.0								
2-Chlorotoluene	U	1.0								
4-Chlorotoluene	U	1.0								
tert-Butylbenzene	U	1.0								
1,2,4-Trimethylbenzene	U	1.0								
sec-Butylbenzene	U	1.0								
p-Isopropyltoluene	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
n-Butylbenzene	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
Hexachlorobutadiene	U	1.0								
Naphthalene	U	1.0								
1,2,3-Trichlorobenzene	U	1.0								

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0017	0-024-0018	0-024-0019	0-024-0025					
Location :	071204-1	EPA-10(i1)	EPA-10(S3)	EPA-10(QA-MP)	EPA-8(D2)					
File :	AV8374.D	AV8379.D	AV8380.D	AV8381.D	AV8382.D					
Dil. Fact. :	1	1	1	1	1					
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Chloromethane	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0
Vinyl Chloride	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Bromomethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Chloroethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Trichlorofluoromethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Acetone	U	8.0	U	8.0	U	44	U	8.0	U	8.0
1,1-Dichloroethene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Methylene Chloride	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Carbon Disulfide	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Methyl-t-butyl Ether	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
trans-1,2-Dichloroethene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,1-Dichloroethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
2-Butanone	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
2,2-Dichloropropane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
cis-1,2-Dichloroethene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Chloroform	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,1-Dichloropropene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,2-Dichloroethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,1,1-Trichloroethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Carbon Tetrachloride	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Benzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Trichloroethene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,2-Dichloropropane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Bromodichloromethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Dibromomethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
cis-1,3-Dichloropropene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
trans-1,3-Dichloropropene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,1,2-Trichloroethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,3-Dichloropropane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Dibromochloromethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,2-Dibromoethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Bromoform	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
4-Methyl-2-Pentanone	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Toluene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
2-Hexanone	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Tetrachloroethene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Chlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Ethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
p&m-Xylene	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0
o-Xylene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Styrene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Isopropylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,2,3-Trichloropropane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
n-Propylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Bromobenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,3,5-Trimethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
2-Chlorotoluene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
4-Chlorotoluene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
tert-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,2,4-Trimethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
sec-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
p-Isopropyltoluene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,3-Dichlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,4-Dichlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
n-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,2-Dichlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,2,4-Trichlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Hexachlorobutadiene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Naphthalene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,2,3-Trichlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0029	0-024-0030	0-024-0031	0-024-0032					
Location :	071304-2	EPA-8(D1b)	EPA-8(D1a)	EPA-8(RB)	EPA-8(I2)					
File :	AV8395.D	AV8396.D	AV8397.D	AV8398.D	AV8399.D					
Dil. Fact. :	1	1	1	1	1					
Analyte	Conc. µg/L	MDL µg/L								
Dichlorodifluoromethane	U	1.0								
Chloromethane	U	2.0								
Vinyl Chloride	U	1.0								
Bromomethane	U	1.0								
Chloroethane	U	1.0								
Trichlorofluoromethane	U	1.0								
Acetone	U	8.0	U	8.0	U	8.0	U	44	U	44
1,1-Dichloroethene	U	1.0								
Methylene Chloride	U	1.0								
Carbon Disulfide	U	1.0								
Methyl-t-butyl Ether	U	1.0								
trans-1,2-Dichloroethene	U	1.0								
1,1-Dichloroethane	U	1.0								
2-Butanone	U	1.0								
2,2-Dichloropropane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
Chloroform	U	1.0	U	1.0	U	1.0	U	19	U	1.0
1,1-Dichloropropene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,1,1-Trichloroethane	U	1.0								
Carbon Tetrachloride	U	1.0								
Benzene	U	1.0								
Trichloroethene	U	1.0								
1,2-Dichloropropane	U	1.0								
Bromodichloromethane	U	1.0	U	1.0	U	1.0	U	12	U	1.0
Dibromomethane	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
trans-1,3-Dichloropropene	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,3-Dichloropropane	U	1.0								
Dibromochloromethane	U	1.0								
1,2-Dibromoethane	U	1.0								
Bromoform	U	1.0								
4-Methyl-2-Pentanone	U	1.0								
Toluene	U	1.0								
2-Hexanone	U	1.0								
Tetrachloroethene	U	1.0								
Chlorobenzene	U	1.0								
1,1,1,2-Tetrachloroethane	U	1.0								
Ethylbenzene	U	1.0								
p&m-Xylene	U	2.0								
o-Xylene	U	1.0								
Styrene	U	1.0								
Isopropylbenzene	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,2,3-Trichloropropene	U	1.0								
n-Propylbenzene	U	1.0								
Bromobenzene	U	1.0								
1,3,5-Trimethylbenzene	U	1.0								
2-Chlorotoluene	U	1.0								
4-Chlorotoluene	U	1.0								
tert-Butylbenzene	U	1.0								
1,2,4-Trimethylbenzene	U	1.0								
sec-Butylbenzene	U	1.0								
p-Isopropyltoluene	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
n-Butylbenzene	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
Hexachlorobutadiene	U	1.0								
Naphthalene	U	1.0								
1,2,3-Trichlorobenzene	U	1.0								

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA #0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0033	0-024-0034	0-024-0035	0-024-0008					
Location :	071304-2	EPA-8(i1)	EPA-8(S1)	EPA-8(MP)	EPA-6(D3)					
File :	AV8395.D	AV8400.D	AV8401.D	AV8402.D	AV8403.D					
Dil. Fact. :	1	1	1	1	1					
Analyte	Conc. µg/L	MDL µg/L								
Dichlorodifluoromethane	U	1.0								
Chloromethane	U	2.0								
Vinyl Chloride	U	1.0								
Bromomethane	U	1.0								
Chloroethane	U	1.0								
Trichlorofluoromethane	U	1.0								
Acetone	U	8.0								
1,1-Dichloroethene	U	1.0								
Methylene Chloride	U	1.0								
Carbon Disulfide	U	1.0								
Methyl-1-butyl Ether	U	1.0								
trans-1,2-Dichloroethene	U	1.0								
1,1-Dichloroethane	U	1.0								
2-Butanone	U	1.0								
2,2-Dichloropropane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
Chloroform	U	1.0								
1,1-Dichloropropene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,1,1-Trichloroethane	U	1.0								
Carbon Tetrachloride	U	1.0								
Benzene	U	1.0								
Trichloroethene	U	1.0								
1,2-Dichloropropane	U	1.0								
Bromodichloromethane	U	1.0								
Dibromomethane	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
trans-1,3-Dichloropropene	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,3-Dichloropropane	U	1.0								
Dibromochloromethane	U	1.0								
1,2-Dibromoethane	U	1.0								
Bromoform	U	1.0								
4-Methyl-2-Pentanone	U	1.0								
Toluene	U	1.0								
2-Hexanone	U	1.0								
Tetrachloroethene	U	1.0								
Chlorobenzene	U	1.0								
1,1,1,2-Tetrachloroethane	U	1.0								
Ethylbenzene	U	1.0								
p&m-Xylene	U	2.0								
o-Xylene	U	1.0								
Styrene	U	1.0								
Isopropylbenzene	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,2,3-Trichloropropane	U	1.0								
n-Propylbenzene	U	1.0								
Bromobenzene	U	1.0								
1,3,5-Trimethylbenzene	U	1.0								
2-Chlorotoluene	U	1.0								
4-Chlorotoluene	U	1.0								
tert-Butylbenzene	U	1.0								
1,2,4-Trimethylbenzene	U	1.0								
sec-Butylbenzene	U	1.0								
p-Isopropyltoluene	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
n-Butylbenzene	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
Hexachlorobutadiene	U	1.0								
Naphthalene	U	1.0								
1,2,3-Trichlorobenzene	U	1.0								

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0021	0-024-0013			
Location :	071304-2	EPA-8(D3)	EPA-10(D2)			
File :	AV8395.D	AV8404.D	AV8405.D			
Dil. Fact. :	1	1	1			
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U	1.0
Chloromethane	U	2.0	U	2.0	U	2.0
Vinyl Chloride	U	1.0	U	1.0	U	1.0
Bromomethane	U	1.0	U	1.0	U	1.0
Chloroethane	U	1.0	U	1.0	U	1.0
Trichlorofluoromethane	U	1.0	U	1.0	U	1.0
Acetone	U	8.0	U	8.0	U	8.0
1,1-Dichloroethene	U	1.0	U	1.0	U	1.0
Methylene Chloride	U	1.0	U	1.0	U	1.0
Carbon Disulfide	U	1.0	U	1.0	U	1.0
Methyl-t-butyl Ether	U	1.0	U	1.0	U	1.0
trans-1,2-Dichloroethene	U	1.0	U	1.0	U	1.0
1,1-Dichloroethane	U	1.0	U	1.0	U	1.0
2-Butanone	U	1.0	U	1.0	U	1.0
2,2-Dichloropropane	U	1.0	U	1.0	U	1.0
cis-1,2-Dichloroethene	U	1.0	U	1.0	U	1.0
Chloroform	U	1.0	U	1.0	U	1.0
1,1-Dichloropropene	U	1.0	U	1.0	U	1.0
1,2-Dichloroethane	U	1.0	U	1.0	U	1.0
1,1,1-Trichloroethane	U	1.0	U	1.0	U	1.0
Carbon Tetrachloride	U	1.0	U	1.0	U	1.0
Benzene	U	1.0	U	1.0	U	1.0
Trichloroethene	U	1.0	U	1.0	U	1.0
1,2-Dichloropropane	U	1.0	U	1.0	U	1.0
Bromodichloromethane	U	1.0	U	1.0	U	1.0
Dibromomethane	U	1.0	U	1.0	U	1.0
cis-1,3-Dichloropropene	U	1.0	U	1.0	U	1.0
trans-1,3-Dichloropropene	U	1.0	U	1.0	U	1.0
1,1,2-Trichloroethane	U	1.0	U	1.0	U	1.0
1,3-Dichloropropane	U	1.0	U	1.0	U	1.0
Dibromochloromethane	U	1.0	U	1.0	U	1.0
1,2-Dibromoethane	U	1.0	U	1.0	U	1.0
Bromoform	U	1.0	U	1.0	U	1.0
4-Methyl-2-Pentanone	U	1.0	U	1.0	U	1.0
Toluene	U	1.0	U	1.0	U	1.0
2-Hexanone	U	1.0	U	1.0	U	1.0
Tetrachloroethene	U	1.0	U	1.0	U	1.0
Chlorobenzene	U	1.0	U	1.0	U	1.0
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0	U	1.0
Ethylbenzene	U	1.0	U	1.0	U	1.0
p&m-Xylene	U	2.0	U	2.0	U	2.0
o-Xylene	U	1.0	U	1.0	U	1.0
Styrene	U	1.0	U	1.0	U	1.0
Isopropylbenzene	U	1.0	U	1.0	U	1.0
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0	U	1.0
1,2,3-Trichloropropane	U	1.0	U	1.0	U	1.0
n-Propylbenzene	U	1.0	U	1.0	U	1.0
Bromobenzene	U	1.0	U	1.0	U	1.0
1,3,5-Trimethylbenzene	U	1.0	U	1.0	U	1.0
2-Chlorotoluene	U	1.0	U	1.0	U	1.0
4-Chlorotoluene	U	1.0	U	1.0	U	1.0
tert-Butylbenzene	U	1.0	U	1.0	U	1.0
1,2,4-Trimethylbenzene	U	1.0	U	1.0	U	1.0
sec-Butylbenzene	U	1.0	U	1.0	U	1.0
p-Isopropyltoluene	U	1.0	U	1.0	U	1.0
1,3-Dichlorobenzene	U	1.0	U	1.0	U	1.0
1,4-Dichlorobenzene	U	1.0	U	1.0	U	1.0
n-Butylbenzene	U	1.0	U	1.0	U	1.0
1,2-Dichlorobenzene	U	1.0	U	1.0	U	1.0
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0	U	1.0
1,2,4-Trichlorobenzene	U	1.0	U	1.0	U	1.0
Hexachlorobutadiene	U	1.0	U	1.0	U	1.0
Naphthalene	U	1.0	U	1.0	U	1.0
1,2,3-Trichlorobenzene	U	1.0	U	1.0	U	1.0

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0009	0-024-0010	0-024-0011	0-024-0012					
Location :	071204-1	EPA-6(D2)	EPA-6(D1)	EPA-6(I2)	EPA-10(D3)					
File :	BV9019.D	BV9020.D	BV9021.D	BV9022.D	BV9023.D					
Dil. Fact. :	1	1	1	1	1					
Analyte	Conc. µg/L	MDL µg/L								
Dichlorodifluoromethane	U	1.0								
Chloromethane	U	2.0								
Vinyl Chloride	U	1.0								
Bromomethane	U	1.0								
Chloroethane	U	1.0								
Trichlorofluoromethane	U	1.0								
Acetone	U	8.0								
1,1-Dichloroethene	U	1.0								
Methylene Chloride	U	1.0								
Carbon Disulfide	U	1.0								
Methyl-t-butyl Ether	U	1.0								
trans-1,2-Dichloroethene	U	1.0								
1,1-Dichloroethane	U	1.0								
2-Butanone	U	1.0								
2,2-Dichloropropane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
Chloroform	U	1.0								
1,1-Dichloropropene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,1,1-Trichloroethane	U	1.0								
Carbon Tetrachloride	U	1.0								
Benzene	U	1.0								
Trichloroethene	U	1.0								
1,2-Dichloropropane	U	1.0								
Bromodichloromethane	U	1.0								
Dibromomethane	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
trans-1,3-Dichloropropene	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,3-Dichloropropane	U	1.0								
Dibromochloromethane	U	1.0								
1,2-Dibromoethane	U	1.0								
Bromoform	U	1.0								
4-Methyl-2-Pentanone	U	1.0								
Toluene	U	1.0								
2-Hexanone	U	1.0								
Tetrachloroethene	U	1.0								
Chlorobenzene	U	1.0								
1,1,1,2-Tetrachloroethane	U	1.0								
Ethylbenzene	U	1.0								
p&m-Xylene	U	2.0								
o-Xylene	U	1.0								
Styrene	U	1.0								
Isopropylbenzene	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,2,3-Trichloropropene	U	1.0								
n-Propylbenzene	U	1.0								
Bromobenzene	U	1.0								
1,3,5-Trimethylbenzene	U	1.0								
2-Chlorotoluene	U	1.0								
4-Chlorotoluene	U	1.0								
tert-Butylbenzene	U	1.0								
1,2,4-Trimethylbenzene	U	1.0								
sec-Butylbenzene	U	1.0								
p-Isopropyltoluene	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
n-Butylbenzene	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	R	1.0								
1,2,4-Trichlorobenzene	U	1.0								
Hexachlorobutadiene	U	1.0								
Naphthalene	U	1.0								
1,2,3-Trichlorobenzene	U	1.0								

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0047	0-024-0038	0-024-0039	0-024-0040
Location :	071404-2	TB	CY204(PPD1B)	CY204(D1A)	CY204(i2)
File :	AV8418.D	AV8419.D	AV8420.D	AV8421.D	AV8422.D
Dil. Fact. :	1	1	1	1	1
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U
Chloromethane	U	2.0	U	2.0	U
Vinyl Chloride	U	1.0	U	1.0	U
Bromomethane	U	1.0	U	1.0	U
Chloroethane	U	1.0	U	1.0	U
Trichlorofluoromethane	U	1.0	U	1.0	U
Acetone	U	8.0	3.0 J	8.0	U
1,1-Dichloroethene	U	1.0	U	1.0	U
Methylene Chloride	U	1.0	U	1.0	U
Carbon Disulfide	U	1.0	U	1.0	U
Methyl-t-butyl Ether	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	U	1.0	U	7.2	1.0
1,1-Dichloroethane	U	1.0	U	1.0	U
2-Butanone	U	1.0	U	1.0	U
2,2-Dichloropropane	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	U	1.0	U	450	1.0
Chloroform	U	1.0	6.3	1.0	U
1,1-Dichloropropene	U	1.0	U	1.0	U
1,2-Dichloroethane	U	1.0	U	1.0	U
1,1,1-Trichloroethane	U	1.0	U	1.0	U
Carbon Tetrachloride	U	1.0	U	1.0	U
Benzene	U	1.0	U	1.0	U
Trichloroethene	U	1.0	U	36	1
1,2-Dichloropropane	U	1.0	U	1.0	U
Bromodichloromethane	U	1.0	3.4	1.0	U
Dibromomethane	U	1.0	U	1.0	U
cis-1,3-Dichloropropene	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	U	1.0	U	1.0	U
1,1,2-Trichloroethane	U	1.0	U	1.0	U
1,3-Dichloropropane	U	1.0	U	1.0	U
Dibromochloromethane	U	1.0	1.1	1.0	U
1,2-Dibromoethane	U	1.0	U	1.0	U
Bromoform	U	1.0	U	1.0	U
4-Methyl-2-Pentanone	U	1.0	U	1.0	U
Toluene	U	1.0	U	1.1	1.0
2-Hexanone	U	1.0	U	1.0	U
Tetrachloroethene	U	1.0	U	1.0	U
Chlorobenzene	U	1.0	U	1.0	U
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0	U
Ethylbenzene	U	1.0	U	1.0	U
p&m-Xylene	U	2.0	U	2.0	2.0
o-Xylene	U	1.0	U	1.0	U
Styrene	U	1.0	U	1.0	U
Isopropylbenzene	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0	U
1,2,3-Trichloropropane	U	1.0	U	1.0	U
n-Propylbenzene	U	1.0	U	1.0	U
Bromobenzene	U	1.0	U	1.0	U
1,3,5-Trimethylbenzene	U	1.0	U	1.0	U
2-Chlorotoluene	U	1.0	U	1.0	U
4-Chlorotoluene	U	1.0	U	1.0	U
tert-Butylbenzene	U	1.0	U	1.0	U
1,2,4-Trimethylbenzene	U	1.0	U	1.0	U
sec-Butylbenzene	U	1.0	U	1.0	U
p-Isopropyltoluene	U	1.0	U	1.0	U
1,3-Dichlorobenzene	U	1.0	U	1.0	U
1,4-Dichlorobenzene	U	1.0	U	1.0	U
n-Butylbenzene	U	1.0	U	1.0	U
1,2-Dichlorobenzene	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0	1.0
1,2,4-Trichlorobenzene	U	1.0	U	1.0	1.0
Hexachlorobutadiene	U	1.0	U	1.0	1.0
Naphthalene	U	1.0	U	1.0	1.0
1,2,3-Trichlorobenzene	U	1.0	U	1.0	1.0

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0041	0-024-0042	0-024-0043	0-024-0044					
Location :	071404-2	CY204(S1)	CY205(QA-RB)	CY205(PPD1B)	CY205(D1A)					
File :	AV8418.D	AV8423.D	AV8424.D	AV8425.D	AV8426.D					
Dil. Fact. :	1	1	1	1	1					
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Chloromethane	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0
Vinyl Chloride	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Bromomethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Chloroethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Trichlorofluoromethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Acetone	U	8.0	U	8.0	U	30	U	8.0	U	8.0
1,1-Dichloroethene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Methylene Chloride	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Carbon Disulfide	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Methyl-t-butyl Ether	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
trans-1,2-Dichloroethene	U	1.0	U	1.0	U	1.0	4.3	1.0	6.4	1.0
1,1-Dichloroethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
2-Butanone	U	1.0	U	1.0	5.7	1.0	U	1.0	U	1.0
2,2-Dichloropropane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
cis-1,2-Dichloroethene	U	1.0	2.0	1.0	U	1.0	350	1.0	560	1.0
Chloroform	U	1.0	U	1.0	U	32	U	32	U	1.0
1,1-Dichloropropene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,2-Dichloroethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,1,1-Trichloroethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Carbon Tetrachloride	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Benzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Trichloroethene	U	1.0	U	1.0	U	1.0	22	1.0	36	1.0
1,2-Dichloropropane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Bromodichloromethane	U	1.0	U	1.0	U	17	U	1.0	U	1.0
Dibromomethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
cis-1,3-Dichloropropene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
trans-1,3-Dichloropropene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,1,2-Trichloroethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,3-Dichloropropane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Dibromochloromethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,2-Dibromoethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Bromoform	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
4-Methyl-2-Pentanone	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Toluene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
2-Hexanone	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Tetrachloroethene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Chlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Ethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
p&m-Xylene	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0
o-Xylene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Styrene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Isopropylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,2,3-Trichloropropane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
n-Propylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Bromobenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,3,5-Trimethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
2-Chlorotoluene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
4-Chlorotoluene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
tert-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,2,4-Trimethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
sec-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
p-Isopropyltoluene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,3-Dichlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,4-Dichlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
n-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,2-Dichlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,2,4-Trichlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Hexachlorobutadiene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Naphthalene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
1,2,3-Trichlorobenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0045	0-024-0046			
Location :	071404-2	CY205(D1A dup)	CY205(I2B)			
File :	AV8418.D	AV8427.D	AV8428.D			
Dil. Fact. :	1	1	1			
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U	1.0
Chloromethane	U	2.0	U	2.0	U	2.0
Vinyl Chloride	U	1.0	U	1.0	U	1.0
Bromomethane	U	1.0	U	1.0	U	1.0
Chloroethane	U	1.0	U	1.0	U	1.0
Trichlorofluoromethane	U	1.0	U	1.0	U	1.0
Acetone	U	8.0	U	8.0	U	8.0
1,1-Dichloroethene	U	1.0	U	1.0	U	1.0
Methylene Chloride	U	1.0	U	1.0	U	1.0
Carbon Disulfide	U	1.0	U	1.0	U	1.0
Methyl-t-butyl Ether	U	1.0	U	1.0	U	1.0
trans-1,2-Dichloroethene	U	1.0	6.8	1.0	5.7	1.0
1,1-Dichloroethane	U	1.0	U	1.0	U	1.0
2-Butanone	U	1.0	U	1.0	U	1.0
2,2-Dichloropropane	U	1.0	U	1.0	U	1.0
cis-1,2-Dichloroethene	U	1.0	540	1.0	490	1.0
Chloroform	U	1.0	U	1.0	U	1.0
1,1-Dichloropropene	U	1.0	U	1.0	U	1.0
1,2-Dichloroethane	U	1.0	U	1.0	U	1.0
1,1,1-Trichloroethane	U	1.0	U	1.0	U	1.0
Carbon Tetrachloride	U	1.0	U	1.0	U	1.0
Benzene	U	1.0	U	1.0	U	1.0
Trichloroethene	U	1.0	36	1.0	31	1.0
1,2-Dichloropropane	U	1.0	U	1.0	U	1.0
Bromodichloromethane	U	1.0	U	1.0	U	1.0
Dibromomethane	U	1.0	U	1.0	U	1.0
cis-1,3-Dichloropropene	U	1.0	U	1.0	U	1.0
trans-1,3-Dichloropropene	U	1.0	U	1.0	U	1.0
1,1,2-Trichloroethane	U	1.0	U	1.0	U	1.0
1,3-Dichloropropane	U	1.0	U	1.0	U	1.0
Dibromochloromethane	U	1.0	U	1.0	U	1.0
1,2-Dibromoethane	U	1.0	U	1.0	U	1.0
Bromoform	U	1.0	U	1.0	U	1.0
4-Methyl-2-Pentanone	U	1.0	U	1.0	U	1.0
Toluene	U	1.0	U	1.0	U	1.0
2-Hexanone	U	1.0	U	1.0	U	1.0
Tetrachloroethene	U	1.0	U	1.0	U	1.0
Chlorobenzene	U	1.0	U	1.0	U	1.0
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0	U	1.0
Ethylbenzene	U	1.0	U	1.0	U	1.0
p&m-Xylene	U	2.0	U	2.0	U	2.0
o-Xylene	U	1.0	U	1.0	U	1.0
Styrene	U	1.0	U	1.0	U	1.0
Isopropylbenzene	U	1.0	U	1.0	U	1.0
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0	U	1.0
1,2,3-Trichloropropane	U	1.0	U	1.0	U	1.0
n-Propylbenzene	U	1.0	U	1.0	U	1.0
Bromobenzene	U	1.0	U	1.0	U	1.0
1,3,5-Trimethylbenzene	U	1.0	U	1.0	U	1.0
2-Chlorotoluene	U	1.0	U	1.0	U	1.0
4-Chlorotoluene	U	1.0	U	1.0	U	1.0
tert-Butylbenzene	U	1.0	U	1.0	U	1.0
1,2,4-Trimethylbenzene	U	1.0	U	1.0	U	1.0
sec-Butylbenzene	U	1.0	U	1.0	U	1.0
p-Isopropyltoluene	U	1.0	U	1.0	U	1.0
1,3-Dichlorobenzene	U	1.0	U	1.0	U	1.0
1,4-Dichlorobenzene	U	1.0	U	1.0	U	1.0
n-Butylbenzene	U	1.0	U	1.0	U	1.0
1,2-Dichlorobenzene	U	1.0	U	1.0	U	1.0
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0	U	1.0
1,2,4-Trichlorobenzene	U	1.0	U	1.0	U	1.0
Hexachlorobutadiene	U	1.0	U	1.0	U	1.0
Naphthalene	U	1.0	U	1.0	U	1.0
1,2,3-Trichlorobenzene	U	1.0	U	1.0	U	1.0

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0058		
Location :	071504-2	TB		
File :	AV8445.D	AV8453.D		
Dil. Fact. :	1	1		
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L
Dichlorodifluoromethane	U	1.0	U	1.0
Chloromethane	U	2.0	U	2.0
Vinyl Chloride	U	1.0	U	1.0
Bromomethane	U	1.0	U	1.0
Chloroethane	U	1.0	U	1.0
Trichlorodifluoromethane	U	1.0	U	1.0
Acetone	U	8.0	4.9 J	8.0
1,1-Dichloroethene	U	1.0	U	1.0
<i>Methylene Chloride</i>	U	1.0	U	1.0
Carbon Disulfide	U	1.0	U	1.0
Methyl-t-butyl Ether	U	1.0	U	1.0
trans-1,2-Dichloroethene	U	1.0	U	1.0
1,1-Dichloroethane	U	1.0	U	1.0
2-Butanone	U	1.0	U	1.0
2,2-Dichloropropane	U	1.0	U	1.0
cis-1,2-Dichloroethene	U	1.0	U	1.0
Chloroform	U	1.0	4.8	1.0
1,1-Dichloropropene	U	1.0	U	1.0
1,2-Dichloroethane	U	1.0	U	1.0
1,1,1-Trichloroethane	U	1.0	U	1.0
Carbon Tetrachloride	U	1.0	U	1.0
Benzene	U	1.0	U	1.0
Trichloroethene	U	1.0	U	1.0
1,2-Dichloropropane	U	1.0	U	1.0
Bromodichloromethane	U	1.0	2.9	1.0
Dibromomethane	U	1.0	U	1.0
cis-1,3-Dichloropropene	U	1.0	U	1.0
trans-1,3-Dichloropropene	U	1.0	U	1.0
1,1,2-Trichloroethane	U	1.0	U	1.0
1,3-Dichloropropene	U	1.0	U	1.0
Dibromochloromethane	U	1.0	U	1.0
1,2-Dibromoethane	U	1.0	U	1.0
Bromoform	U	1.0	U	1.0
4-Methyl-2-Pentanone	U	1.0	U	1.0
Toluene	U	1.0	U	1.0
2-Hexanone	U	1.0	U	1.0
Tetrachloroethene	U	1.0	U	1.0
Chlorobenzene	U	1.0	U	1.0
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0
Ethylbenzene	U	1.0	U	1.0
p&m-Xylene	U	2.0	U	2.0
o-Xylene	U	1.0	U	1.0
Styrene	U	1.0	U	1.0
Isopropylbenzene	U	1.0	U	1.0
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0
1,2,3-Trichloropropane	U	1.0	U	1.0
n-Propylbenzene	U	1.0	U	1.0
Bromobenzene	U	1.0	U	1.0
1,3,5-Trimethylbenzene	U	1.0	U	1.0
2-Chlorotoluene	U	1.0	U	1.0
4-Chlorotoluene	U	1.0	U	1.0
tert-Butylbenzene	U	1.0	U	1.0
1,2,4-Trimethylbenzene	U	1.0	U	1.0
sec-Butylbenzene	U	1.0	U	1.0
p-Isopropyltoluene	U	1.0	U	1.0
1,3-Dichlorobenzene	U	1.0	U	1.0
1,4-Dichlorobenzene	U	1.0	U	1.0
n-Butylbenzene	U	1.0	U	1.0
1,2-Dichlorobenzene	U	1.0	U	1.0
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0
1,2,4-Trichlorobenzene	U	1.0	U	1.0
Hexachlorobutadiene	U	1.0	U	1.0
Naphthalene	U	1.0	U	1.0
1,2,3-Trichlorobenzene	U	1.0	U	1.0

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0056	0-024-0048	0-024-0049
Location :	071604-2	EPA-7(QA-RB)	EPA-7(QA-MP)	EPA-7(D3)
File :	AV8460.D	AV8461.D	AV8462.D	AV8463.D
Dil. Fact. :	1	1	1	1
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L
Dichlorodifluoromethane	U	1.0	U	1.0
Chloromethane	U	2.0	U	2.0
Vinyl Chloride	U	1.0	U	1.0
Bromomethane	U	1.0	U	1.0
Chloroethane	U	1.0	U	1.0
Trichlorofluoromethane	U	1.0	U	1.0
Acetone	U	8.0	U	8.0
1,1-Dichloroethene	U	1.0	U	1.0
Methylene Chloride	U	1.0	U	1.0
Carbon Disulfide	U	1.0	U	1.0
Methyl-t-butyl Ether	U	1.0	U	1.0
trans-1,2-Dichloroethene	U	1.0	U	1.0
1,1-Dichloroethane	U	1.0	U	1.0
2-Butanone	U	1.0	1.5	1.0
2,2-Dichloropropane	U	1.0	U	1.0
cis-1,2-Dichloroethene	U	1.0	U	1.0
Chloroform	U	1.0	U	1.0
1,1-Dichloropropene	U	1.0	U	1.0
1,2-Dichloroethane	U	1.0	U	1.0
1,1,1-Trichloroethane	U	1.0	U	1.0
Carbon Tetrachloride	U	1.0	U	1.0
Benzene	U	1.0	U	1.0
Trichloroethene	U	1.0	U	1.0
1,2-Dichloropropane	U	1.0	U	1.0
Bromodichloromethane	U	1.0	U	1.0
Dibromomethane	U	1.0	U	1.0
cis-1,3-Dichloropropene	U	1.0	U	1.0
trans-1,3-Dichloropropene	U	1.0	U	1.0
1,1,2-Trichloroethane	U	1.0	U	1.0
1,3-Dichloropropane	U	1.0	U	1.0
Dibromochloromethane	U	1.0	U	1.0
1,2-Dibromoethane	U	1.0	U	1.0
Bromoform	U	1.0	U	1.0
4-Methyl-2-Pentanone	U	1.0	U	1.0
Toluene	U	1.0	U	1.0
2-Hexanone	U	1.0	U	1.0
Tetrachloroethene	U	1.0	U	1.0
Chlorobenzene	U	1.0	U	1.0
1,1,2-Tetrachloroethane	U	1.0	U	1.0
Ethylbenzene	U	1.0	U	1.0
p&m-Xylene	U	2.0	U	2.0
o-Xylene	U	1.0	U	1.0
Styrene	U	1.0	U	1.0
Isopropylbenzene	U	1.0	U	1.0
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0
1,2,3-Trichloropropane	U	1.0	U	1.0
n-Propylbenzene	U	1.0	U	1.0
Bromobenzene	U	1.0	U	1.0
1,3,5-Trimethylbenzene	U	1.0	U	1.0
2-Chlorotoluene	U	1.0	U	1.0
4-Chlorotoluene	U	1.0	U	1.0
tert-Butylbenzene	U	1.0	U	1.0
1,2,4-Trimethylbenzene	U	1.0	U	1.0
sec-Butylbenzene	U	1.0	U	1.0
p-Isopropyltoluene	U	1.0	U	1.0
1,3-Dichlorobenzene	U	1.0	U	1.0
1,4-Dichlorobenzene	U	1.0	U	1.0
n-Butylbenzene	U	1.0	U	1.0
1,2-Dichlorobenzene	U	1.0	U	1.0
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0
1,2,4-Trichlorobenzene	U	1.0	U	1.0
Hexachlorobutadiene	U	1.0	U	1.0
Naphthalene	U	1.0	U	1.0
1,2,3-Trichlorobenzene	U	1.0	U	1.0

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0051	0-024-0052	0-024-0053	0-024-0054
Location :	071604-2	EPA-7(D2)	EPA-7(D1)	EPA-7(i2)	EPA-7(i1)
File :	AV8460.D	AV8465.D	AV8466.D	AV8467.D	AV8468.D
Dil. Fact. :	1	1	1	1	1
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U
Chloromethane	U	2.0	U	2.0	U
Vinyl Chloride	U	1.0	U	1.0	U
Bromomethane	U	1.0	U	1.0	U
Chloroethane	U	1.0	U	1.0	U
Trichlorofluoromethane	U	1.0	U	1.0	U
Acetone	U	8.0	U	8.0	U
1,1-Dichloroethene	U	1.0	U	1.0	U
Methylene Chloride	U	1.0	U	1.0	U
Carbon Disulfide	U	1.0	U	1.0	U
Methyl-t-butyl Ether	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	U	1.0	U	1.0	U
1,1-Dichloroethane	U	1.0	U	1.0	U
2-Butanone	U	1.0	U	1.0	U
2,2-Dichloropropane	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	U	1.0	U	1.0	U
Chloroform	U	1.0	U	1.0	U
1,1-Dichloropropene	U	1.0	U	1.0	U
1,2-Dichloroethane	U	1.0	U	1.0	U
1,1,1-Trichloroethane	U	1.0	U	1.0	U
Carbon Tetrachloride	U	1.0	U	1.0	U
Benzene	U	1.0	U	1.0	U
Trichloroethene	U	1.0	U	1.0	U
1,2-Dichloropropane	U	1.0	U	1.0	U
Bromodichloromethane	U	1.0	U	1.0	U
Dibromomethane	U	1.0	U	1.0	U
cis-1,3-Dichloropropene	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	U	1.0	U	1.0	U
1,1,2-Trichloroethane	U	1.0	U	1.0	U
1,3-Dichloropropane	U	1.0	U	1.0	U
Dibromochloromethane	U	1.0	U	1.0	U
1,2-Dibromoethane	U	1.0	U	1.0	U
Bromoform	U	1.0	U	1.0	U
4-Methyl-2-Pentanone	U	1.0	U	1.0	U
Toluene	U	1.0	U	1.0	U
2-Hexanone	U	1.0	U	1.0	U
Tetrachloroethene	U	1.0	U	1.0	U
Chlorobenzene	U	1.0	U	1.0	U
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0	U
Ethylbenzene	U	1.0	U	1.0	U
p&m-Xylene	U	2.0	U	2.0	U
o-Xylene	U	1.0	U	1.0	U
Styrene	U	1.0	U	1.0	U
Isopropylbenzene	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0	U
1,2,3-Trichloropropane	U	1.0	U	1.0	U
n-Propylbenzene	U	1.0	U	1.0	U
Bromobenzene	U	1.0	U	1.0	U
1,3,5-Trimethylbenzene	U	1.0	U	1.0	U
2-Chlorotoluene	U	1.0	U	1.0	U
4-Chlorotoluene	U	1.0	U	1.0	U
tert-Butylbenzene	U	1.0	U	1.0	U
1,2,4-Trimethylbenzene	U	1.0	U	1.0	U
sec-Butylbenzene	U	1.0	U	1.0	U
p-Isopropyltoluene	U	1.0	U	1.0	U
1,3-Dichlorobenzene	U	1.0	U	1.0	U
1,4-Dichlorobenzene	U	1.0	U	1.0	U
n-Butylbenzene	U	1.0	U	1.0	U
1,2-Dichlorobenzene	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0	U
1,2,4-Trichlorobenzene	U	1.0	U	1.0	U
Hexachlorobutadiene	U	1.0	U	1.0	U
Naphthalene	U	1.0	U	1.0	U
1,2,3-Trichlorobenzene	U	1.0	U	1.0	U

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0055	0-024-0057	27030		0-024-0068
Location :	071604-2	EPA-7(S1)	EPA-6(QA-MP)	Cayuga County Lake, #:		TB
File :	AV8460.D	AV8469.D	AV8470.D			AV8472.D
Dil. Fact. :	1	1	1	1	1	1
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U	1.0
Chloromethane	U	2.0	U	2.0	U	2.0
Vinyl Chloride	U	1.0	U	1.0	U	1.0
Bromomethane	U	1.0	U	1.0	U	1.0
Chloroethane	U	1.0	U	1.0	U	1.0
Trichlorofluoromethane	U	1.0	U	1.0	U	1.0
Acetone	U	8.0	U	8.0	U	8.0
1,1-Dichloroethene	U	1.0	U	1.0	U	1.0
Methylene Chloride	U	1.0	U	1.0	U	1.0
Carbon Disulfide	U	1.0	U	1.0	U	1.0
Methyl-t-butyl Ether	U	1.0	U	1.0	U	1.0
trans-1,2-Dichloroethene	U	1.0	U	1.0	U	1.0
1,1-Dichloroethane	U	1.0	U	1.0	U	1.0
2-Butanone	U	1.0	U	1.0	U	1.0
2,2-Dichloropropane	U	1.0	U	1.0	U	1.0
cis-1,2-Dichloroethene	U	1.0	U	1.0	U	1.0
Chloroform	U	1.0	U	1.0	U	6.1
1,1-Dichloropropene	U	1.0	U	1.0	U	1.0
1,2-Dichloroethane	U	1.0	U	1.0	U	1.0
1,1,1-Trichloroethane	U	1.0	U	1.0	U	1.0
Carbon Tetrachloride	U	1.0	U	1.0	U	1.0
Benzene	U	1.0	U	1.0	U	1.0
Trichloroethene	U	1.0	U	1.0	U	1.0
1,2-Dichloropropane	U	1.0	U	1.0	U	1.0
Bromodichloromethane	U	1.0	U	1.0	U	3.2
Dibromomethane	U	1.0	U	1.0	U	1.0
cis-1,3-Dichloropropene	U	1.0	U	1.0	U	1.0
trans-1,3-Dichloropropene	U	1.0	U	1.0	U	1.0
1,1,2-Trichloroethane	U	1.0	U	1.0	U	1.0
1,3-Dichloropropane	U	1.0	U	1.0	U	1.0
Dibromochloromethane	U	1.0	U	1.0	U	1.0
1,2-Dibromoethane	U	1.0	U	1.0	U	1.0
Bromoform	U	1.0	U	1.0	U	1.0
4-Methyl-2-Pentanone	U	1.0	U	1.0	U	1.0
Toluene	U	1.0	U	1.0	U	1.0
2-Hexanone	U	1.0	U	1.0	U	1.0
Tetrachloroethene	U	1.0	U	1.0	U	1.0
Chlorobenzene	U	1.0	U	1.0	U	1.0
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0	U	1.0
Ethylbenzene	U	1.0	U	1.0	U	1.0
p&m-Xylene	U	2.0	U	2.0	U	2.0
o-Xylene	U	1.0	U	1.0	U	1.0
Styrene	U	1.0	U	1.0	U	1.0
Isopropylbenzene	U	1.0	U	1.0	U	1.0
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0	U	1.0
1,2,3-Trichloropropane	U	1.0	U	1.0	U	1.0
n-Propylbenzene	U	1.0	U	1.0	U	1.0
Bromobenzene	U	1.0	U	1.0	U	1.0
1,3,5-Trimethylbenzene	U	1.0	U	1.0	U	1.0
2-Chlorotoluene	U	1.0	U	1.0	U	1.0
4-Chlorotoluene	U	1.0	U	1.0	U	1.0
tert-Butylbenzene	U	1.0	U	1.0	U	1.0
1,2,4-Trimethylbenzene	U	1.0	U	1.0	U	1.0
sec-Butylbenzene	U	1.0	U	1.0	U	1.0
p-Isopropyltoluene	U	1.0	U	1.0	U	1.0
1,3-Dichlorobenzene	U	1.0	U	1.0	U	1.0
1,4-Dichlorobenzene	U	1.0	U	1.0	U	1.0
n-Butylbenzene	U	1.0	U	1.0	U	1.0
1,2-Dichlorobenzene	U	1.0	U	1.0	U	1.0
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0	U	1.0
1,2,4-Trichlorobenzene	U	1.0	U	1.0	U	1.0
Hexachlorobutadiene	U	1.0	U	1.0	U	1.0
Naphthalene	U	1.0	U	1.0	U	1.0
1,2,3-Trichlorobenzene	U	1.0	U	1.0	U	1.0

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0067	0-024-0060			
Location :	071604-2	EPA-4(QA-MP)	EPA-4(QA-RB)			
File :	AV8460.D	AV8473.D	AV8474.D			
Dil. Fact. :	1	1	1			
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U	1.0
Chloromethane	U	2.0	U	2.0	U	2.0
Vinyl Chloride	U	1.0	U	1.0	U	1.0
Bromomethane	U	1.0	U	1.0	U	1.0
Chloroethane	U	1.0	U	1.0	U	1.0
Trichlorofluoromethane	U	1.0	U	1.0	U	1.0
Acetone	U	8.0	U	8.0	U	29
1,1-Dichloroethene	U	1.0	U	1.0	U	1.0
Methylene Chloride	U	1.0	U	1.0	U	1.0
Carbon Disulfide	U	1.0	U	1.0	U	1.0
Methyl-t-butyl Ether	U	1.0	U	1.0	U	1.0
trans-1,2-Dichloroethene	U	1.0	U	1.0	U	1.0
1,1-Dichloroethane	U	1.0	U	1.0	U	1.0
2-Butanone	U	1.0	U	1.0	3.0	1.0
2,2-Dichloropropane	U	1.0	U	1.0	U	1.0
cis-1,2-Dichloroethene	U	1.0	U	1.0	U	1.0
Chloroform	U	1.0	U	1.0	U	31
1,1-Dichloropropene	U	1.0	U	1.0	U	1.0
1,2-Dichloroethane	U	1.0	U	1.0	U	1.0
1,1,1-Trichloroethane	U	1.0	U	1.0	U	1.0
Carbon Tetrachloride	U	1.0	U	1.0	U	1.0
Benzene	U	1.0	U	1.0	U	1.0
Trichloroethene	U	1.0	U	1.0	U	1.0
1,2-Dichloropropane	U	1.0	U	1.0	U	1.0
Bromodichloromethane	U	1.0	U	1.0	U	16
Dibromomethane	U	1.0	U	1.0	U	1.0
cis-1,3-Dichloropropene	U	1.0	U	1.0	U	1.0
trans-1,3-Dichloropropene	U	1.0	U	1.0	U	1.0
1,1,2-Trichloroethane	U	1.0	U	1.0	U	1.0
1,3-Dichloropropane	U	1.0	U	1.0	U	1.0
Dibromochloromethane	U	1.0	U	1.0	U	1.0
1,2-Dibromoethane	U	1.0	U	1.0	U	1.0
Bromoform	U	1.0	U	1.0	U	1.0
4-Methyl-2-Pentanone	U	1.0	U	1.0	U	1.0
Toluene	U	1.0	U	1.0	U	1.0
2-Hexanone	U	1.0	U	1.0	U	1.0
Tetrachloroethene	U	1.0	U	1.0	U	1.0
Chlorobenzene	U	1.0	U	1.0	U	1.0
1,1,1-Tetrachloroethane	U	1.0	U	1.0	U	1.0
Ethylbenzene	U	1.0	U	1.0	U	1.0
p&m-Xylene	U	2.0	U	2.0	U	2.0
o-Xylene	U	1.0	U	1.0	U	1.0
Styrene	U	1.0	U	1.0	U	1.0
Isopropylbenzene	U	1.0	U	1.0	U	1.0
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0	U	1.0
1,2,3-Trichloropropane	U	1.0	U	1.0	U	1.0
n-Propylbenzene	U	1.0	U	1.0	U	1.0
Bromobenzene	U	1.0	U	1.0	U	1.0
1,3,5-Trimethylbenzene	U	1.0	U	1.0	U	1.0
2-Chlorotoluene	U	1.0	U	1.0	U	1.0
4-Chlorotoluene	U	1.0	U	1.0	U	1.0
tert-Butylbenzene	U	1.0	U	1.0	U	1.0
1,2,4-Trimethylbenzene	U	1.0	U	1.0	U	1.0
sec-Butylbenzene	U	1.0	U	1.0	U	1.0
p-Isopropyltoluene	U	1.0	U	1.0	U	1.0
1,3-Dichlorobenzene	U	1.0	U	1.0	U	1.0
1,4-Dichlorobenzene	U	1.0	U	1.0	U	1.0
n-Butylbenzene	U	1.0	U	1.0	U	1.0
1,2-Dichlorobenzene	U	1.0	U	1.0	U	1.0
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0	U	1.0
1,2,4-Trichlorobenzene	U	1.0	U	1.0	U	1.0
Hexachlorobutadiene	U	1.0	U	1.0	U	1.0
Naphthalene	U	1.0	U	1.0	U	1.0
1,2,3-Trichlorobenzene	U	1.0	U	1.0	U	1.0

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0061	0-024-0063	0-024-0064	0-024-0065
Location :	071904-1	EPA-4(D3)	EPA-4(D2)	EPA-4(D1)	EPA-4(i2)
File :	AV8479.D	AV8480.D	AV8481.D	AV8482.D	AV8483.D
Dil. Fact. :	1	1	1	1	1
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U
Chloromethane	U	2.0	U	2.0	U
Vinyl Chloride	U	1.0	U	1.0	U
Bromomethane	U	1.0	U	1.0	U
Chloroethane	U	1.0	U	1.0	U
Trichlorofluoromethane	U	1.0	U	1.0	U
Acetone	U	8.0	U	8.0	U
1,1-Dichloroethene	U	1.0	U	1.0	U
Methylene Chloride	U	1.0	U	1.0	U
Carbon Disulfide	U	1.0	U	1.0	U
Methyl-t-butyl Ether	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	U	1.0	U	1.0	U
1,1-Dichloroethane	U	1.0	U	1.0	U
2-Butanone	U	1.0	U	1.0	U
2,2-Dichloropropane	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	U	1.0	U	1.0	U
Chloroform	U	1.0	U	1.0	U
1,1-Dichloropropene	U	1.0	U	1.0	U
1,2-Dichloroethane	U	1.0	U	1.0	U
1,1,1-Trichloroethane	U	1.0	U	1.0	U
Carbon Tetrachloride	U	1.0	U	1.0	U
Benzene	U	1.0	U	1.0	U
Trichloroethene	U	1.0	U	1.0	U
1,2-Dichloropropane	U	1.0	U	1.0	U
Bromodichloromethane	U	1.0	U	1.0	U
Dibromomethane	U	1.0	U	1.0	U
cis-1,3-Dichloropropene	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	U	1.0	U	1.0	U
1,1,2-Trichloroethane	U	1.0	U	1.0	U
1,3-Dichloropropane	U	1.0	U	1.0	U
Dibromochloromethane	U	1.0	U	1.0	U
1,2-Dibromoethane	U	1.0	U	1.0	U
Bromoform	U	1.0	U	1.0	U
4-Methyl-2-Pentanone	U	1.0	U	1.0	U
Toluene	U	1.0	U	1.0	U
2-Hexanone	U	1.0	U	1.0	U
Tetrachloroethene	U	1.0	U	1.0	U
Chlorobenzene	U	1.0	U	1.0	U
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0	U
Ethylbenzene	U	1.0	U	1.0	U
p&m-Xylene	2.0	U	2.0	U	2.0
o-Xylene	1.0	U	1.0	U	1.0
Styrene	1.0	U	1.0	U	1.0
Isopropylbenzene	1.0	U	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0	U	1.0
n-Propylbenzene	1.0	U	1.0	U	1.0
Bromobenzene	1.0	U	1.0	U	1.0
1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0
2-Chlorotoluene	1.0	U	1.0	U	1.0
4-Chlorotoluene	1.0	U	1.0	U	1.0
tert-Butylbenzene	1.0	U	1.0	U	1.0
1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0
sec-Butylbenzene	1.0	U	1.0	U	1.0
p-Isopropyltoluene	1.0	U	1.0	U	1.0
1,3-Dichlorobenzene	1.0	U	1.0	U	1.0
1,4-Dichlorobenzene	1.0	U	1.0	U	1.0
n-Butylbenzene	1.0	U	1.0	U	1.0
1,2-Dichlorobenzene	1.0	U	1.0	U	1.0
1,2-Dibromo-3-chloropropane	1.0	U	1.0	U	1.0
1,2,4-Trichlorobenzene	1.0	U	1.0	U	1.0
Hexachlorobutadiene	1.0	U	1.0	U	1.0
Naphthalene	1.0	U	1.0	U	1.0
1,2,3-Trichlorobenzene	1.0	U	1.0	U	1.0

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0066	0-024-0069	0-024-0070	0-024-0073
Location :	071904-1	EPA-4(S1)	EPA-2(QA-RB)	EPA-2(D3)	EPA-2(D1)
File :	AV8479.D	AV8484.D	AV8485.D	AV8486.D	AV8488.D
Dil. Fact. :	1	1	1	1	1
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U
Chloromethane	U	2.0	U	2.0	U
Vinyl Chloride	U	1.0	U	1.0	U
Bromomethane	U	1.0	U	1.0	U
Chloroethane	U	1.0	U	1.0	U
Trichlorofluoromethane	U	1.0	U	1.0	U
Acetone	U	8.0	U	8.0	U
1,1-Dichloroethene	U	1.0	U	1.0	U
Methylene Chloride	U	1.0	U	1.0	U
Carbon Disulfide	U	1.0	U	1.0	U
Methyl-t-butyl Ether	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	U	1.0	U	1.0	U
1,1-Dichloroethane	U	1.0	U	1.0	U
2-Butanone	U	1.0	U	1.0	U
2,2-Dichloropropane	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	U	1.0	U	1.0	U
Chloroform	U	1.0	U	1.0	U
1,1-Dichloropropene	U	1.0	U	1.0	U
1,2-Dichloroethane	U	1.0	U	1.0	U
1,1,1-Trichloroethane	U	1.0	U	1.0	U
Carbon Tetrachloride	U	1.0	U	1.0	U
Benzene	U	1.0	U	1.0	U
Trichloroethene	U	1.0	U	1.0	U
1,2-Dichloropropane	U	1.0	U	1.0	U
Bromodichloromethane	U	1.0	U	1.0	U
Dibromomethane	U	1.0	U	1.0	U
cis-1,3-Dichloropropene	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	U	1.0	U	1.0	U
1,1,2-Trichloroethane	U	1.0	U	1.0	U
1,3-Dichloropropane	U	1.0	U	1.0	U
Dibromochloromethane	U	1.0	U	1.0	U
1,2-Dibromoethane	U	1.0	U	1.0	U
Bromoform	U	1.0	U	1.0	U
4-Methyl-2-Pentanone	U	1.0	U	1.0	U
Toluene	U	1.0	U	1.0	U
2-Hexanone	U	1.0	U	1.0	U
Tetrachloroethene	U	1.0	U	1.0	U
Chlorobenzene	U	1.0	U	1.0	U
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0	U
Ethylbenzene	U	1.0	U	1.0	U
p&m-Xylene	U	2.0	U	2.0	U
o-Xylene	U	1.0	U	1.0	U
Styrene	U	1.0	U	1.0	U
Isopropylbenzene	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0	U
1,2,3-Trichloropropane	U	1.0	U	1.0	U
n-Propylbenzene	U	1.0	U	1.0	U
Bromobenzene	U	1.0	U	1.0	U
1,3,5-Trimethylbenzene	U	1.0	U	1.0	U
2-Chlorotoluene	U	1.0	U	1.0	U
4-Chlorotoluene	U	1.0	U	1.0	U
tert-Butylbenzene	U	1.0	U	1.0	U
1,2,4-Trimethylbenzene	U	1.0	U	1.0	U
sec-Butylbenzene	U	1.0	U	1.0	U
p-Isopropyltoluene	U	1.0	U	1.0	U
1,3-Dichlorobenzene	U	1.0	U	1.0	U
1,4-Dichlorobenzene	U	1.0	U	1.0	U
n-Butylbenzene	U	1.0	U	1.0	U
1,2-Dichlorobenzene	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0	U
1,2,4-Trichlorobenzene	U	1.0	U	1.0	U
Hexachlorobutadiene	U	1.0	U	1.0	U
Naphthalene	U	1.0	U	1.0	U
1,2,3-Trichlorobenzene	U	1.0	U	1.0	U

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample # :	Water Blank	0-024-0074	0-024-0076	0-024-0079	0-024-0080
Location :	071904-1	EPA-2(i2)	EPA-1(D3)	EPA-1(D1)	EPA-1(S3)
File :	AV8479.D	AV8489.D	AV8491.D	AV8493.D	AV8494.D
Dil. Fact. :	1	1	1	1	1
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U
Chloromethane	U	2.0	U	2.0	U
Vinyl Chloride	U	1.0	6.3	1.0	94
Bromomethane	U	1.0	U	1.0	U
Chloroethane	U	1.0	U	1.0	U
Trichlorofluoromethane	U	1.0	U	1.0	U
Acetone	U	8.0	U	8.0	U
1,1-Dichloroethene	U	1.0	U	1.0	U
Methylene Chloride	U	1.0	U	1.0	U
Carbon Disulfide	U	1.0	U	1.0	U
Methyl-t-butyl Ether	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	U	1.0	8.1	1.0	23
1,1-Dichloroethane	U	1.0	U	1.0	U
2-Butanone	U	1.0	U	1.0	U
2,2-Dichloropropane	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	U	1.0	640	1.0	1700
Chloroform	U	1.0	U	1.0	U
1,1-Dichloropropene	U	1.0	U	1.0	U
1,2-Dichloroethane	U	1.0	U	1.0	U
1,1,1-Trichloroethane	U	1.0	U	1.0	U
Carbon Tetrachloride	U	1.0	U	1.0	U
Benzene	U	1.0	U	1.0	U
Trichloroethene	U	1.0	41	1.0	1.1
1,2-Dichloropropane	U	1.0	U	1.0	U
Bromodichloromethane	U	1.0	U	1.0	U
Dibromomethane	U	1.0	U	1.0	U
cis-1,3-Dichloropropene	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	U	1.0	U	1.0	U
1,1,2-Trichloroethane	U	1.0	U	1.0	U
1,3-Dichloropropane	U	1.0	U	1.0	U
Dibromochloromethane	U	1.0	U	1.0	U
1,2-Dibromoethane	U	1.0	U	1.0	U
Bromoform	U	1.0	U	1.0	U
4-Methyl-2-Pentanone	U	1.0	U	1.0	U
Toluene	U	1.0	U	1.0	U
2-Hexanone	U	1.0	U	1.0	U
Tetrachloroethene	U	1.0	U	1.0	U
Chlorobenzene	U	1.0	U	1.0	U
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0	U
Ethylbenzene	U	1.0	U	1.0	U
p&m-Xylene	U	2.0	U	2.0	U
o-Xylene	U	1.0	U	1.0	U
Styrene	U	1.0	U	1.0	U
Isopropylbenzene	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0	U
1,2,3-Trichloropropane	U	1.0	U	1.0	U
n-Propylbenzene	U	1.0	U	1.0	U
Bromobenzene	U	1.0	U	1.0	U
1,3,5-Trimethylbenzene	U	1.0	U	1.0	U
2-Chlorotoluene	U	1.0	U	1.0	U
4-Chlorotoluene	U	1.0	U	1.0	U
tert-Butylbenzene	U	1.0	U	1.0	U
1,2,4-Trimethylbenzene	U	1.0	U	1.0	U
sec-Butylbenzene	U	1.0	U	1.0	U
p-Isopropyltoluene	U	1.0	U	1.0	U
1,3-Dichlorobenzene	U	1.0	U	1.0	U
1,4-Dichlorobenzene	U	1.0	U	1.0	U
n-Butylbenzene	U	1.0	U	1.0	U
1,2-Dichlorobenzene	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0	U
1,2,4-Trichlorobenzene	U	1.0	U	1.0	U
Hexachlorobutadiene	U	1.0	U	1.0	U
Naphthalene	U	1.0	U	1.0	U
1,2,3-Trichlorobenzene	U	1.0	U	1.0	U

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga Westbay Sampling Site

Sample # :	Water blank	0-024-0062	0-024-0071	0-024-0050	0-024-0081
Location :	072004-2	EPA-4(D3-DUP)	EPA-2(D3-dup)	EPA-7(D3 dup)	EPA-1(S2)
File :	AV8501.D	AV8502.D	AV8503.D	AV8505.D	AV8506.D
Dil. Fact. :	1	1	1	1	1
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U
Chloromethane	U	2.0	U	2.0	U
Vinyl Chloride	U	1.0	U	1.0	U
Bromomethane	U	1.0	U	1.0	U
Chloroethane	U	1.0	U	1.0	U
Trichlorofluoromethane	U	1.0	U	1.0	U
Acetone	U	8.0	U	8.0	U
1,1-Dichloroethene	U	1.0	U	1.0	U
Methylene Chloride	U	1.0	U	1.0	U
Carbon Disulfide	U	1.0	U	1.0	U
Methyl-t-butyl Ether	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	U	1.0	U	2.3	U
1,1-Dichloroethane	U	1.0	U	1.0	U
2-Butanone	U	1.0	U	1.0	U
2,2-Dichloropropane	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	U	1.0	U	190	U
Chloroform	U	1.0	U	1.0	U
1,1-Dichloropropene	U	1.0	U	1.0	U
1,2-Dichloroethane	U	1.0	U	1.0	U
1,1,1-Trichloroethane	U	1.0	U	1.0	U
Carbon Tetrachloride	U	1.0	U	1.0	U
Benzene	U	1.0	U	1.0	U
Trichloroethene	U	1.0	U	8.8	U
1,2-Dichloropropane	U	1.0	U	1.0	U
Bromodichloromethane	U	1.0	U	1.0	U
Dibromomethane	U	1.0	U	1.0	U
cis-1,3-Dichloropropene	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	U	1.0	U	1.0	U
1,1,2-Trichloroethane	U	1.0	U	1.0	U
1,3-Dichloropropane	U	1.0	U	1.0	U
Dibromochloromethane	U	1.0	U	1.0	U
1,2-Dibromoethane	U	1.0	U	1.0	U
Bromoform	U	1.0	U	1.0	U
4-Methyl-2-Pentanone	U	1.0	U	1.0	U
Toluene	U	1.0	U	1.0	U
2-Hexanone	U	1.0	U	1.0	U
Tetrachloroethene	U	1.0	U	1.0	U
Chlorobenzene	U	1.0	U	1.0	U
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0	U
Ethylbenzene	U	1.0	U	1.0	U
p&m-Xylene	2.0	U	2.0	U	2.0
o-Xylene	1.0	U	1.0	U	1.0
Styrene	1.0	U	1.0	U	1.0
Isopropylbenzene	1.0	U	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0	U	1.0
n-Propylbenzene	1.0	U	1.0	U	1.0
Bromobenzene	1.0	U	1.0	U	1.0
1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0
2-Chlorotoluene	1.0	U	1.0	U	1.0
4-Chlorotoluene	1.0	U	1.0	U	1.0
tert-Butylbenzene	1.0	U	1.0	U	1.0
1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0
sec-Butylbenzene	1.0	U	1.0	U	1.0
p-Isopropyltoluene	1.0	U	1.0	U	1.0
1,3-Dichlorobenzene	1.0	U	1.0	U	1.0
1,4-Dichlorobenzene	1.0	U	1.0	U	1.0
n-Butylbenzene	1.0	U	1.0	U	1.0
1,2-Dichlorobenzene	1.0	U	1.0	U	1.0
1,2-Dibromo-3-chloropropane	1.0	U	1.0	U	1.0
1,2,4-Trichlorobenzene	1.0	U	1.0	U	1.0
Hexachlorobutadiene	1.0	U	1.0	U	1.0
Naphthalene	1.0	U	1.0	U	1.0
1,2,3-Trichlorobenzene	1.0	U	1.0	U	1.0

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga Westbay Sampling Site

Sample # :	Water blank	0-024-0097	0-024-0083	0-024-0084	0-024-0085
Location :	072004-4	TB	EPA-1(QA-RB)	EPA-5(QA-RB)	EPA-5(D3)
File :	AV8521.D	AV8522.D	AV8523.D	AV8524.D	AV8525.D
Dil. Fact. :	1	1	1	1	1
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U
Chloromethane	U	2.0	U	2.0	U
Vinyl Chloride	U	1.0	U	1.0	U
Bromomethane	U	1.0	U	1.0	U
Chloroethane	U	1.0	U	1.0	U
Trichlorofluoromethane	U	1.0	U	1.0	U
Acetone	U	8.0	U	8.0	U
1,1-Dichloroethene	U	1.0	U	1.0	U
Methylene Chloride	U	1.0	U	1.0	U
Carbon Disulfide	U	1.0	U	1.0	U
Methyl-t-butyl Ether	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	U	1.0	U	1.0	U
1,1-Dichloroethane	U	1.0	U	1.0	U
2-Butanone	U	1.0	U	1.0	U
2,2-Dichloropropane	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	U	1.0	U	1.0	U
Chloroform	U	1.0	6.8	U	34
1,1-Dichloropropene	U	1.0	U	1.0	U
1,2-Dichloroethane	U	1.0	U	1.0	U
1,1,1-Trichloroethane	U	1.0	U	1.0	U
Carbon Tetrachloride	U	1.0	U	1.0	U
Benzene	U	1.0	U	1.0	U
Trichloroethene	U	1.0	U	1.0	U
1,2-Dichloropropane	U	1.0	U	1.0	U
Bromodichloromethane	U	1.0	3.5	U	18
Dibromomethane	U	1.0	U	1.0	U
cis-1,3-Dichloropropene	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	U	1.0	U	1.0	U
1,1,2-Trichloroethane	U	1.0	U	1.0	U
1,3-Dichloropropane	U	1.0	U	1.0	U
Dibromochloromethane	U	1.0	1.0	U	1.0
1,2-Dibromoethane	U	1.0	U	1.0	U
Bromoform	U	1.0	U	1.0	U
4-Methyl-2-Pentanone	U	1.0	U	1.0	U
Toluene	U	1.0	U	1.0	U
2-Hexanone	U	1.0	U	1.0	U
Tetrachloroethene	U	1.0	U	1.0	U
Chlorobenzene	U	1.0	U	1.0	U
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0	U
Ethylbenzene	U	1.0	U	1.0	U
p&m-Xylene	U	2.0	U	2.0	U
o-Xylene	U	1.0	U	1.0	U
Styrene	U	1.0	U	1.0	U
Isopropylbenzene	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0	U
1,2,3-Trichloropropane	U	1.0	U	1.0	U
n-Propylbenzene	U	1.0	U	1.0	U
Bromobenzene	U	1.0	U	1.0	U
1,3,5-Trimethylbenzene	U	1.0	U	1.0	U
2-Chlorotoluene	U	1.0	U	1.0	U
4-Chlorotoluene	U	1.0	U	1.0	U
tert-Butylbenzene	U	1.0	U	1.0	U
1,2,4-Trimethylbenzene	U	1.0	U	1.0	U
sec-Butylbenzene	U	1.0	U	1.0	U
p-Isopropyltoluene	U	1.0	U	1.0	U
1,3-Dichlorobenzene	U	1.0	U	1.0	U
1,4-Dichlorobenzene	U	1.0	U	1.0	U
n-Butylbenzene	U	1.0	U	1.0	U
1,2-Dichlorobenzene	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0	U
1,2,4-Trichlorobenzene	U	1.0	U	1.0	U
Hexachlorobutadiene	U	1.0	U	1.0	U
Naphthalene	U	1.0	U	1.0	U
1,2,3-Trichlorobenzene	U	1.0	U	1.0	U

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
 WA # 0-024 Cayuga Westbay Sampling Site

Sample # :	Water blank	0-024-0086	0-024-0087	0-024-0088	0-024-0089
Location :	072004-4	EPA-5(D3)dup	EPA-5(D2)	EPA-5(D1)	EPA-5(QA-MP)
File :	AV8521.D	AV8526.D	AV8527.D	AV8528.D	AV8529.D
Dil. Fact. :	1	1	1	1	1
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U
Chloromethane	U	2.0	U	2.0	U
Vinyl Chloride	U	1.0	U	1.0	U
Bromomethane	U	1.0	U	1.0	U
Chloroethane	U	1.0	U	1.0	U
Trichlorofluoromethane	U	1.0	U	1.0	U
Acetone	U	8.0	U	8.0	U
1,1-Dichloroethene	U	1.0	U	1.0	U
Methylene Chloride	U	1.0	U	1.0	U
Carbon Disulfide	U	1.0	U	1.0	U
Methyl-t-butyl Ether	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	U	1.0	U	1.0	U
1,1-Dichloroethane	U	1.0	U	1.0	U
2-Butanone	U	1.0	U	1.0	U
2,2-Dichloropropane	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	U	1.0	U	1.0	U
Chloroform	U	1.0	U	1.0	U
1,1-Dichloropropene	U	1.0	U	1.0	U
1,2-Dichloroethane	U	1.0	U	1.0	U
1,1,1-Trichloroethane	U	1.0	U	1.0	U
Carbon Tetrachloride	U	1.0	U	1.0	U
Benzene	U	1.0	U	1.0	U
Trichloroethene	U	1.0	U	1.0	U
1,2-Dichloropropane	U	1.0	U	1.0	U
Bromodichloromethane	U	1.0	U	1.0	U
Dibromomethane	U	1.0	U	1.0	U
cis-1,3-Dichloropropene	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	U	1.0	U	1.0	U
1,1,2-Trichloroethane	U	1.0	U	1.0	U
1,3-Dichloropropane	U	1.0	U	1.0	U
Dibromochloromethane	U	1.0	U	1.0	U
1,2-Dibromoethane	U	1.0	U	1.0	U
Bromoform	U	1.0	U	1.0	U
4-Methyl-2-Pentanone	U	1.0	U	1.0	U
Toluene	U	1.0	U	1.0	U
2-Hexanone	U	1.0	U	1.0	U
Tetrachloroethene	U	1.0	U	1.0	U
Chlorobenzene	U	1.0	U	1.0	U
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0	U
Ethylbenzene	U	1.0	U	1.0	U
p&m-Xylene	U	2.0	U	2.0	U
o-Xylene	U	1.0	U	1.0	U
Styrene	U	1.0	U	1.0	U
Isopropylbenzene	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0	U
1,2,3-Trichloropropane	U	1.0	U	1.0	U
n-Propylbenzene	U	1.0	U	1.0	U
Bromobenzene	U	1.0	U	1.0	U
1,3,5-Trimethylbenzene	U	1.0	U	1.0	U
2-Chlorotoluene	U	1.0	U	1.0	U
4-Chlorotoluene	U	1.0	U	1.0	U
tert-Butylbenzene	U	1.0	U	1.0	U
1,2,4-Trimethylbenzene	U	1.0	U	1.0	U
sec-Butylbenzene	U	1.0	U	1.0	U
p-Isopropyltoluene	U	1.0	U	1.0	U
1,3-Dichlorobenzene	U	1.0	U	1.0	U
1,4-Dichlorobenzene	U	1.0	U	1.0	U
n-Butylbenzene	U	1.0	U	1.0	U
1,2-Dichlorobenzene	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0	U
1,2,4-Trichlorobenzene	U	1.0	U	1.0	U
Hexachlorobutadiene	U	1.0	U	1.0	U
Naphthalene	U	1.0	U	1.0	U
1,2,3-Trichlorobenzene	U	1.0	U	1.0	U

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
 WA # 0-024 Cayuga Westbay Sampling Site

Sample # :	Water blank	0-024-0090	0-024-0092	0-024-0093	0-024-0094
Location :	072004-4	EPA-9(D3)	EPA-9(D2)	EPA-9(D1)	EPA-9(I2)
File :	AV8521.D	AV8530.D	AV8531.D	AV8532.D	AV8533.D
Dil. Fact. :	1	1	1	1	1
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L	Conc. µg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U
Chloromethane	U	2.0	U	2.0	U
Vinyl Chloride	U	1.0	U	1.0	U
Bromomethane	U	1.0	U	1.0	U
Chloroethane	U	1.0	U	1.0	U
Trichlorofluoromethane	U	1.0	U	1.0	U
Acetone	U	8.0	U	8.0	U
1,1-Dichloroethene	U	1.0	U	1.0	U
Methylene Chloride	U	1.0	U	1.0	U
Carbon Disulfide	U	1.0	U	1.0	U
Methyl-t-butyl Ether	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	U	1.0	U	1.0	U
1,1-Dichloroethane	U	1.0	U	1.0	U
2-Butanone	U	1.0	U	1.0	U
2,2-Dichloropropane	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	U	1.0	U	2.5	U
Chloroform	U	1.0	U	1.0	U
1,1-Dichloropropene	U	1.0	U	1.0	U
1,2-Dichloroethane	U	1.0	U	1.0	U
1,1,1-Trichloroethane	U	1.0	U	1.0	U
Carbon Tetrachloride	U	1.0	U	1.0	U
Benzene	U	1.0	U	1.0	U
Trichloroethene	U	1.0	U	1.0	U
1,2-Dichloropropane	U	1.0	U	1.0	U
Bromodichloromethane	U	1.0	U	1.0	U
Dibromomethane	U	1.0	U	1.0	U
cis-1,3-Dichloropropene	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	U	1.0	U	1.0	U
1,1,2-Trichloroethane	U	1.0	U	1.0	U
1,3-Dichloropropane	U	1.0	U	1.0	U
Dibromochloromethane	U	1.0	U	1.0	U
1,2-Dibromoethane	U	1.0	U	1.0	U
Bromoform	U	1.0	U	1.0	U
4-Methyl-2-Pentanone	U	1.0	U	1.0	U
Toluene	U	1.0	U	1.0	U
2-Hexanone	U	1.0	U	1.0	U
Tetrachloroethene	U	1.0	U	1.0	U
Chlorobenzene	U	1.0	U	1.0	U
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0	U
Ethylbenzene	U	1.0	U	1.0	U
p&m-Xylene	U	2.0	U	2.0	U
o-Xylene	U	1.0	U	1.0	U
Styrene	U	1.0	U	1.0	U
Isopropylbenzene	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0	U
1,2,3-Trichloropropane	U	1.0	U	1.0	U
n-Propylbenzene	U	1.0	U	1.0	U
Bromobenzene	U	1.0	U	1.0	U
1,3,5-Trimethylbenzene	U	1.0	U	1.0	U
2-Chlorotoluene	U	1.0	U	1.0	U
4-Chlorotoluene	U	1.0	U	1.0	U
tert-Butylbenzene	U	1.0	U	1.0	U
1,2,4-Trimethylbenzene	U	1.0	U	1.0	U
sec-Butylbenzene	U	1.0	U	1.0	U
p-Isopropyltoluene	U	1.0	U	1.0	U
1,3-Dichlorobenzene	U	1.0	U	1.0	U
1,4-Dichlorobenzene	U	1.0	U	1.0	U
n-Butylbenzene	U	1.0	U	1.0	U
1,2-Dichlorobenzene	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0	U
1,2,4-Trichlorobenzene	U	1.0	U	1.0	U
Hexachlorobutadiene	U	1.0	U	1.0	U
Naphthalene	U	1.0	U	1.0	U
1,2,3-Trichlorobenzene	U	1.0	U	1.0	U

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga Westbay Sampling Site

Sample # :	Water blank	0-024-0095	0-024-0096			
Location :	072004-4	EPA-9(i1)	EPA-9(QA-MP)			
File :	AV8521.D	AV8534.D	AV8535.D			
Dil. Fact. :	1	1	1			
Analyte	Conc. μg/L	MDL μg/L	Conc. μg/L	MDL μg/L	Conc. μg/L	MDL μg/L
Dichlorodifluoromethane	U	1.0	U	1.0	U	1.0
Chloromethane	U	2.0	U	2.0	U	2.0
Vinyl Chloride	U	1.0	U	1.0	U	1.0
Bromomethane	U	1.0	U	1.0	U	1.0
Chloroethane	U	1.0	U	1.0	U	1.0
Trichlorofluoromethane	U	1.0	U	1.0	U	1.0
Acetone	U	8.0	4.3 J	8.0	U	8.0
1,1-Dichloroethene	U	1.0	U	1.0	U	1.0
Methylene Chloride	U	1.0	U	1.0	U	1.0
Carbon Disulfide	U	1.0	U	1.0	U	1.0
Methyl-t-butyl Ether	U	1.0	U	1.0	U	1.0
trans-1,2-Dichloroethene	U	1.0	U	1.0	U	1.0
1,1-Dichloroethane	U	1.0	U	1.0	U	1.0
2-Butanone	U	1.0	U	1.0	U	1.0
2,2-Dichloropropane	U	1.0	U	1.0	U	1.0
cis-1,2-Dichloroethene	U	1.0	U	1.0	U	1.0
Chloroform	U	1.0	U	1.0	U	1.0
1,1-Dichloropropene	U	1.0	U	1.0	U	1.0
1,2-Dichloroethane	U	1.0	U	1.0	U	1.0
1,1,1-Trichloroethane	U	1.0	U	1.0	U	1.0
Carbon Tetrachloride	U	1.0	U	1.0	U	1.0
Benzene	U	1.0	U	1.0	U	1.0
Trichloroethene	U	1.0	U	1.0	U	1.0
1,2-Dichloropropane	U	1.0	U	1.0	U	1.0
Bromodichloromethane	U	1.0	U	1.0	U	1.0
Dibromomethane	U	1.0	U	1.0	U	1.0
cis-1,3-Dichloropropene	U	1.0	U	1.0	U	1.0
trans-1,3-Dichloropropene	U	1.0	U	1.0	U	1.0
1,1,2-Trichloroethane	U	1.0	U	1.0	U	1.0
1,3-Dichloropropane	U	1.0	U	1.0	U	1.0
Dibromochloromethane	U	1.0	U	1.0	U	1.0
1,2-Dibromoethane	U	1.0	U	1.0	U	1.0
Bromoform	U	1.0	U	1.0	U	1.0
4-Methyl-2-Pentanone	U	1.0	U	1.0	U	1.0
Toluene	U	1.0	U	1.0	U	1.0
2-Hexanone	U	1.0	U	1.0	U	1.0
Tetrachloroethene	U	1.0	U	1.0	U	1.0
Chlorobenzene	U	1.0	U	1.0	U	1.0
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0	U	1.0
Ethylbenzene	U	1.0	U	1.0	U	1.0
p&m-Xylene	U	2.0	U	2.0	U	2.0
o-Xylene	U	1.0	U	1.0	U	1.0
Styrene	U	1.0	U	1.0	U	1.0
Isopropylbenzene	U	1.0	U	1.0	U	1.0
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0	U	1.0
1,2,3-Trichloropropane	U	1.0	U	1.0	U	1.0
n-Propylbenzene	U	1.0	U	1.0	U	1.0
Bromobenzene	U	1.0	U	1.0	U	1.0
1,3,5-Trimethylbenzene	U	1.0	U	1.0	U	1.0
2-Chlorotoluene	U	1.0	U	1.0	U	1.0
4-Chlorotoluene	U	1.0	U	1.0	U	1.0
tert-Butylbenzene	U	1.0	U	1.0	U	1.0
1,2,4-Trimethylbenzene	U	1.0	U	1.0	U	1.0
sec-Butylbenzene	U	1.0	U	1.0	U	1.0
p-Isopropyltoluene	U	1.0	U	1.0	U	1.0
1,3-Dichlorobenzene	U	1.0	U	1.0	U	1.0
1,4-Dichlorobenzene	U	1.0	U	1.0	U	1.0
n-Butylbenzene	U	1.0	U	1.0	U	1.0
1,2-Dichlorobenzene	U	1.0	U	1.0	U	1.0
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0	U	1.0
1,2,4-Trichlorobenzene	U	1.0	U	1.0	U	1.0
Hexachlorobutadiene	U	1.0	U	1.0	U	1.0
Naphthalene	U	1.0	U	1.0	U	1.0
1,2,3-Trichlorobenzene	U	1.0	U	1.0	U	1.0

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga Westbay Sampling Site

Sample # :	Water blank	0-024-0091	0-024-0077	0-024-0082
Location :	072104-1	EPA-9(D3-dup)	EPA-1(D3)dup	EPA-1(QA-MP)
File :	AV8540.D	AV8544.D	AV8545.D	AV8546.D
Dil. Fact. :	1	1	1	1
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L
Dichlorodifluoromethane	U	1.0	U	1.0
Chloromethane	U	2.0	U	2.0
Vinyl Chloride	U	1.0	U	99
Bromomethane	U	1.0	U	1.0
Chloroethane	U	1.0	U	1.0
Trichlorofluoromethane	U	1.0	U	1.0
Acetone	U	8.0	U	8.0
1,1-Dichloroethene	U	1.0	U	2.0
Methylene Chloride	U	1.0	U	1.0
Carbon Disulfide	U	1.0	U	1.0
Methyl-t-butyl Ether	U	1.0	U	1.0
trans-1,2-Dichloroethene	U	1.0	U	24
1,1-Dichloroethane	U	1.0	U	1.0
2-Butanone	U	1.0	U	1.0
2,2-Dichloropropane	U	1.0	U	1.0
cis-1,2-Dichloroethene	U	1.0	U	1800
Chloroform	U	1.0	U	1.0
1,1-Dichloropropene	U	1.0	U	1.0
1,2-Dichloroethane	U	1.0	U	1.0
1,1,1-Trichloroethane	U	1.0	U	1.0
Carbon Tetrachloride	U	1.0	U	1.0
Benzene	U	1.0	U	1.0
Trichloroethene	U	1.0	U	1.2
1,2-Dichloropropane	U	1.0	U	1.0
Bromodichloromethane	U	1.0	U	1.0
Dibromomethane	U	1.0	U	1.0
cis-1,3-Dichloropropene	U	1.0	U	1.0
trans-1,3-Dichloropropene	U	1.0	U	1.0
1,1,2-Trichloroethane	U	1.0	U	1.0
1,3-Dichloropropane	U	1.0	U	1.0
Dibromochloromethane	U	1.0	U	1.0
1,2-Dibromoethane	U	1.0	U	1.0
Bromoform	U	1.0	U	1.0
4-Methyl-2-Pentanone	U	1.0	U	1.0
Toluene	U	1.0	U	1.0
2-Hexanone	U	1.0	U	1.0
Tetrachloroethene	U	1.0	U	1.0
Chlorobenzene	U	1.0	U	1.0
1,1,1,2-Tetrachloroethane	U	1.0	U	1.0
Ethylbenzene	U	1.0	U	1.0
p&m-Xylene	U	2.0	U	2.0
o-Xylene	U	1.0	U	1.0
Styrene	U	1.0	U	1.0
Isopropylbenzene	U	1.0	U	1.0
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0
1,2,3-Trichloropropane	U	1.0	U	1.0
n-Propylbenzene	U	1.0	U	1.0
Bromobenzene	U	1.0	U	1.0
1,3,5-Trimethylbenzene	U	1.0	U	1.0
2-Chlorotoluene	U	1.0	U	1.0
4-Chlorotoluene	U	1.0	U	1.0
tert-Butylbenzene	U	1.0	U	1.0
1,2,4-Trimethylbenzene	U	1.0	U	1.0
sec-Butylbenzene	U	1.0	U	1.0
p-Isopropyltoluene	U	1.0	U	1.0
1,3-Dichlorobenzene	U	1.0	U	1.0
1,4-Dichlorobenzene	U	1.0	U	1.0
n-Butylbenzene	U	1.0	U	1.0
1,2-Dichlorobenzene	U	1.0	U	1.0
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0
1,2,4-Trichlorobenzene	U	1.0	U	1.0
Hexachlorobutadiene	U	1.0	U	1.0
Naphthalene	U	1.0	U	1.0
1,2,3-Trichlorobenzene	U	1.0	U	1.0

Table 1.1 (cont.) Results of the Analysis for VOC in Water  
WA # 0-024 Cayuga Westbay Sampling Site

Sample # :	Water Blank	0-024-0072	0-024-0075	0-024-0078
Location :	071904-1	EPA-2(D2)	EPA-2(QA-MP)	EPA-1(D2)
File :	AV8479.D	AV8487.D	AV8490.D	AV8492.D
Dil. Fact. :	1	1	1	1
Analyte	Conc. µg/L	MDL µg/L	Conc. µg/L	MDL µg/L
Dichlorodifluoromethane	U	1.0	U	1.0
Chloromethane	U	2.0	U	2.0
Vinyl Chloride	U	1.0	U	1.0
Bromomethane	U	1.0	U	1.0
Chloroethane	U	1.0	U	1.0
Trichlorofluoromethane	U	1.0	U	1.0
Acetone	U	8.0	U	8.0
1,1-Dichloroethene	U	1.0	U	1.0
Methylene Chloride	U	1.0	U	1.0
Carbon Disulfide	U	1.0	U	1.0
Methyl-t-butyl Ether	U	1.0	U	1.0
trans-1,2-Dichloroethene	U	1.0	U	1.0
1,1-Dichloroethane	U	1.0	U	1.0
2-Butanone	U	1.0	U	1.0
2,2-Dichloropropane	U	1.0	U	1.0
cis-1,2-Dichloroethene	U	1.0	22	1.0
Chloroform	U	1.0	U	34
1,1-Dichloropropene	U	1.0	U	1.0
1,2-Dichloroethane	U	1.0	U	1.0
1,1,1-Trichloroethane	U	1.0	U	1.0
Carbon Tetrachloride	U	1.0	U	1.0
Benzene	U	1.0	U	1.0
Trichloroethene	U	1.0	1.4	1.0
1,2-Dichloropropane	U	1.0	U	1.0
Bromodichloromethane	U	1.0	U	1.0
Dibromomethane	U	1.0	U	1.0
cis-1,3-Dichloropropene	U	1.0	U	1.0
trans-1,3-Dichloropropene	U	1.0	U	1.0
1,1,2-Trichloroethane	U	1.0	U	1.0
1,3-Dichloropropane	U	1.0	U	1.0
Dibromochloromethane	U	1.0	U	1.0
1,2-Dibromoethane	U	1.0	U	1.0
Bromoform	U	1.0	U	1.0
4-Methyl-2-Pentanone	U	1.0	U	1.0
Toluene	U	1.0	U	1.0
2-Hexanone	U	1.0	U	1.0
Tetrachloroethene	U	1.0	U	1.0
Chlorobenzene	U	1.0	U	1.0
1,1,2-Tetrachloroethane	U	1.0	U	1.0
Ethylbenzene	U	1.0	U	1.0
p&m-Xylene	U	2.0	U	2.0
o-Xylene	U	1.0	U	1.0
Styrene	U	1.0	U	1.0
Isopropylbenzene	U	1.0	U	1.0
1,1,2,2-Tetrachloroethane	U	1.0	U	1.0
1,2,3-Trichloropropane	U	1.0	U	1.0
n-Propylbenzene	U	1.0	U	1.0
Bromobenzene	U	1.0	U	1.0
1,3,5-Trimethylbenzene	U	1.0	U	1.0
2-Chlorotoluene	U	1.0	U	1.0
4-Chlorotoluene	U	1.0	U	1.0
tert-Butylbenzene	U	1.0	U	1.0
1,2,4-Trimethylbenzene	U	1.0	U	1.0
sec-Butylbenzene	U	1.0	U	1.0
p-Isopropyltoluene	U	1.0	U	1.0
1,3-Dichlorobenzene	U	1.0	U	1.0
1,4-Dichlorobenzene	U	1.0	U	1.0
n-Butylbenzene	U	1.0	U	1.0
1,2-Dichlorobenzene	U	1.0	U	1.0
1,2-Dibromo-3-chloropropane	U	1.0	U	1.0
1,2,4-Trichlorobenzene	U	1.0	U	1.0
Hexachlorobutadiene	U	1.0	U	1.0
Naphthalene	U	1.0	U	1.0
1,2,3-Trichlorobenzene	U	1.0	U	1.0

Table 1.2 Results of TIC for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample ID	Compound
Water Blank 070904-1	No TICs Found
0-024-0002	No TICs Found
0-024-0003	No TICs Found
0-024-0004	No TICs Found
0-024-0005	No TICs Found
0-024-0006	No TICs Found
Water Blank 071204-1	No TICs Found
0-024-0036	No TICs Found
0-024-0014	No TICs Found
0-024-0016	No TICs Found
0-024-0017	No TICs Found
0-024-0018	No TICs Found
0-024-0019	No TICs Found
0-024-0025	No TICs Found
Water Blank 071304-2	No TICs Found
0-024-0029	No TICs Found
0-024-0030	No TICs Found
0-024-0032	No TICs Found
0-024-0033	No TICs Found
0-024-0034	No TICs Found
0-024-0035	No TICs Found
0-024-0008	No TICs Found
0-024-0021	No TICs Found
0-024-0013	No TICs Found
0-024-0009	No TICs Found
0-024-0010	No TICs Found
0-024-0011	No TICs Found
0-024-0012	No TICs Found
Water Blank 071404-2	No TICs Found
0-024-0047	No TICs Found
0-024-0038	No TICs Found
0-024-0039	No TICs Found
0-024-0040	No TICs Found
0-024-0041	No TICs Found
0-024-0042	No TICs Found
0-024-0043	No TICs Found
0-024-0044	No TICs Found
0-024-0045	No TICs Found
0-024-0046	No TICs Found
Water Blank 071504-2	No TICs Found
Water Blank 071604-2	No TICs Found
0-024-0056	No TICs Found
0-024-0048	No TICs Found
0-024-0049	No TICs Found
0-024-0051	No TICs Found
0-024-0052	No TICs Found
0-024-0053	No TICs Found

Table 1.2 (cont.) Results of TIC for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample ID	Compound
0-024-0054	No TICs Found
0-024-0055	No TICs Found
0-024-0057	No TICs Found
27030	No TICs Found
0-024-0067	No TICs Found
0-024-0060	No TICs Found
Water Blank 071904-1	No TICs Found
0-024-0061	No TICs Found
0-024-0063	No TICs Found
0-024-0064	No TICs Found
0-024-0065	No TICs Found
0-024-0066	No TICs Found
0-024-0069	No TICs Found
0-024-0070	No TICs Found
0-024-0072	No TICs Found
0-024-0073	No TICs Found
0-024-0074	No TICs Found
0-024-0075	No TICs Found
0-024-0076	No TICs Found
0-024-0078	No TICs Found
0-024-0079	No TICs Found
0-024-0080	No TICs Found
Water Blank 072004-2	No TICs Found
0-024-0062	No TICs Found
0-024-0071	No TICs Found
0-024-0050	No TICs Found
0-024-0081	No TICs Found
Water Blank 072004-4	No TICs Found
0-024-0097	No TICs Found
0-024-0083	No TICs Found
0-024-0084	No TICs Found
0-024-0085	No TICs Found
0-024-0086	No TICs Found
0-024-0087	No TICs Found
0-024-0088	No TICs Found
0-024-0089	No TICs Found
0-024-0090	No TICs Found
0-024-0092	No TICs Found
0-024-0093	No TICs Found
0-024-0094	No TICs Found
0-024-0095	No TICs Found
0-024-0096	No TICs Found
Water Blank 072104-1	No TICs Found
0-024-0091	No TICs Found
0-024-0077	No TICs Found
0-024-0082	No TICs Found

Table 1.2 (cont.) Results of TIC for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample LabFile	0-024-0007 AV8359	Unit Con. Factor	µg/L 1.0
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	CAS#	Compound	Q	RT	Conc
1		C4H10 Alkane		2.35	17

\*Estimated Concentration (Response Factor = 1.0)

Table 1.2 (cont.) Results of TIC for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample	0-024-0001		Unit	µg/L	
LabFile	AV8360		Con. Factor	1.0	
	CAS#	Compound	Q	RT	Conc
1		C4H10 Alkane		2.35	11

\*Estimated Concentration (Response Factor = 1.0)

Table 1.2 (cont.) Results of TIC for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample	0-024-0015	Unit	µg/L
LabFile	AV8377	Con. Factor	1.0

	CAS#	Compound	Q	RT	Conc
1		C4H10 Alkane		2.35	7.6

\*Estimated Concentration (Response Factor = 1.0)

Table 1.2 (cont.) Results of TIC for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample	0-024-0031	Unit	µg/L		
LabFile	AV8398	Con. Factor	1.0		
1	CAS#	Compound	Q	RT	Conc
1		C4H10 Alkane		2.35	5.3

\*Estimated Concentration (Response Factor = 1.0)

Table 1.2 (cont.) Results of TIC for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample LabFile	Water Blank 071204-1 BV9019	Unit Con. Factor	µg/L 1.0
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	CAS#	Compound	Q	RT	Conc
1		Sulfur dioxide		5.41	7.5

\*Estimated Concentration (Response Factor = 1.0)

Table 1.2 (cont.) Results of TIC for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample	0-024-0058	Unit	µg/L	
LabFile	AV8453	Con. Factor	1.0	
1	C4H10 Alkane		2.35	6.3

\*Estimated Concentration (Response Factor = 1.0)

Table 1.2 (cont.) Results of TIC for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample	0-024-0068	Unit	µg/L		
LabFile	AV8472	Con. Factor		1	
	CAS#	Compound	Q	RT	
1		C4H10 Alkane		2.36	5.7

\*Estimated Concentration (Response Factor = 1.0)

QA/QC for VOC

Results of the Internal Standard Areas and Surrogate Percent Recoveries for VOC in Water

Each sample was spiked with a three component mixture of CLP surrogate standards consisting of toluene-d<sub>8</sub>, 4-bromofluorobenzene and 1,2-dichloroethane-d<sub>4</sub>. The surrogate percent recoveries, listed in Table 2.1, ranged from 88 to 113. All four hundred and two values were within the acceptable QC limits. The internal standard areas (for bromochloromethane, 1,4-difluoro-benzene, and chlorobenzene-d<sub>5</sub>) are also listed in Table 2.1. All four hundred and two areas are within the acceptable QC limits.

Results of the MS/MSD Percent Recoveries for VOC in Water

Samples 0-024-0002, 0-024-0003, 0-024-0014, 0-024-0016, 0-024-0017, 0-024-0062, 0-024-0050, 0-024-0071, 0-024-0091 and 0-024-0077 were chosen for the matrix spike/matrix spike duplicate analysis (MS/MSD). The percent recoveries, listed in Table 2.2, ranged from 91 to 161 and all eighty-nine out of one hundred values are within the acceptable QC limits. The relative percent differences, also listed in Table 2.2, ranged from 0 (zero) to 29 and forty-eight out of fifty values are within the acceptable QC limits.

Table 2.1 Results of the Internal Standard Areas and Surrogate Percent Recoveries for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

File ID	Sample No.	IS 1	IS 2	IS 3	Sur. 1	Sur. 2	Sur. 3
Cal Check Area	AV8357.D	183105	1356220	826570			
AV8358.D	Water Blank 070904-1	181993	1347298	778203	96	103	92
AV8359.D	0-024-0007	172805	1305637	761840	98	103	92
AV8360.D	0-024-0001	167349	1268796	745471	99	102	90
AV8361.D	0-024-0002	169378	1255948	736034	99	103	91
AV8362.D	0-024-0003	166283	1238135	726911	99	103	91
AV8363.D	0-024-0004	162495	1228034	719005	100	103	91
AV8364.D	0-024-0005	162216	1227153	719667	100	103	90
AV8365.D	0-024-0006	163205	1212004	712084	100	103	90
AV8366.D	0-024-0002 ms	163254	1262101	736292	101	100	88
AV8367.D	0-024-0002 msd	162376	1263921	731467	103	101	89
AV8368.D	0-024-0003 ms	159534	1246071	728309	102	100	88
AV8369.D	0-024-0003 msd	162671	1250582	729172	103	100	89
Cal Check Area	AV8373.D	180492	1374320	855937			
AV8374.D	Water Blank 071204-1	179467	1340599	769141	97	107	97
AV8375.D	0-024-0036	170773	1262139	740806	99	106	95
AV8376.D	0-024-0014	164876	1234625	726703	100	106	95
AV8377.D	0-024-0015	163793	1215964	716913	101	106	95
AV8378.D	0-024-0016	157555	1188780	708149	102	105	94
AV8379.D	0-024-0017	161465	1196880	711870	102	106	94
AV8380.D	0-024-0018	160451	1193040	706523	102	106	94
AV8381.D	0-024-0019	159428	1184238	707335	103	105	93
AV8382.D	0-024-0025	156669	1181154	695386	103	106	94
AV8383.D	0-024-0014 ms	155828	1241352	726370	103	104	92
AV8384.D	0-024-0014 msd	155588	1220928	716691	104	104	92
AV8385.D	0-024-0016 ms	154592	1230092	720321	104	104	92
AV8386.D	0-024-0016 msd	157779	1226441	721615	103	103	92
AV8387.D	0-024-0017 ms	154231	1222590	716526	104	103	92
AV8388.D	0-024-0017 msd	151583	1214428	715709	105	103	92
Cal Check Area	AV8393.D	166082	1260460	779641			
AV8395.D	Water Blank 071304-2	150975	1154560	687644	102	104	92
AV8396.D	0-024-0029	152414	1143429	678157	101	103	92
AV8397.D	0-024-0030	150960	1130875	677080	102	103	92
AV8398.D	0-024-0031	151026	1121755	676715	101	103	92
AV8399.D	0-024-0032	148191	1108998	673460	102	102	91
AV8400.D	0-024-0033	146558	1110312	665254	102	103	92
AV8401.D	0-024-0034	146652	1095064	665326	103	102	91
AV8402.D	0-024-0035	143697	1096971	660041	104	103	92
AV8403.D	0-024-0008	147943	1110230	663255	103	103	91
AV8404.D	0-024-0021	144824	1102203	662190	104	103	91
AV8405.D	0-024-0013	144523	1087753	657325	103	103	90

IS 1 = Bromochloromethane      Surr. 1 = 1,2-Dichloroethane-d4      76 - 114  
 IS 2 = 1,4-Difluorobenzene      Surr. 2 = Toluene-d8      88 - 110  
 IS 3 = Chlorobenzene-d5      Surr. 3 = p-Bromofluorobenzene      86 - 115

Table 2.1 (cont.) Results of the Internal Standard Areas and Surrogate Percent Recoveries for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

File ID	Sample No.	IS 1	IS 2	IS 3	Sur. 1	Sur. 2	Sur. 3
Cal Check Area	BV9018.D	263380	2282560	1353560			
BV9019.D	Water Blank 071204-1	247218	2201376	1262429	101	103	92
BV9020.D	0-024-0009	242152	2158079	1243151	101	103	92
BV9021.D	0-024-0010	238968	2119362	1220011	101	103	92
BV9022.D	0-024-0011	234034	2111400	1221936	102	102	91
BV9023.D	0-024-0012	233852	2059322	1188073	103	103	92
Cal Check Area	AV8416.D	168677	1251440	767944			
AV8418.D	Water Blank 071404-2	156178	1181004	691880	100	103	92
AV8419.D	0-024-0047	155893	1156502	683848	99	103	93
AV8420.D	0-024-0038	159543	1160984	680085	98	104	92
AV8421.D	0-024-0039	160042	1146790	676869	96	104	92
AV8422.D	0-024-0040	157097	1142290	669472	97	104	91
AV8423.D	0-024-0041	148571	1107645	661715	99	103	91
AV8424.D	0-024-0042	151072	1116947	663783	99	103	92
AV8425.D	0-024-0043	156258	1131795	666586	98	104	92
AV8426.D	0-024-0044	156262	1122080	662997	98	103	92
AV8427.D	0-024-0045	154267	1124752	662880	99	103	91
AV8428.D	0-024-0046	156107	1111244	654962	99	104	92
Cal Check Area	AV8440.D	342768	2602530	1485200			
AV8445.D	Water Blank 071504-2	261243	1990302	1155084	108	101	93
AV8446.D	0-024-0038/10x	263705	1926826	1119342	106	101	93
AV8447.D	0-024-0039/10x	253389	1883121	1104994	108	101	92
AV8448.D	0-024-0040/10x	250951	1858649	1098242	108	101	92
AV8449.D	0-024-0043/10x	255168	1845340	1086705	109	102	91
AV8450.D	0-024-0044/10x	256917	1869454	1099886	109	101	91
AV8451.D	0-024-0045/10x	252569	1846269	1099437	110	101	91
AV8452.D	0-024-0046/10x	255235	1840761	1091888	110	102	91
AV8453.D	0-024-0058	244468	1809690	1076422	113	102	91

IS 1 = Bromochloromethane      Surr. 1 = 1,2-Dichloroethane-d4      76 - 114  
 IS 2 = 1,4-Difluorobenzene      Surr. 2 = Toluene-d8      88 - 110  
 IS 3 = Chlorobenzene-d5      Surr. 3 = p-Bromofluorobenzene      86 - 115

Table 2.1 (cont.) Results of the Internal Standard Areas and Surrogate Percent Recoveries for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

File ID	Sample No.	IS 1	IS 2	IS 3	Sur. 1	Sur. 2	Sur. 3
Cal Check Area	AV8458.D	264611	1989660	1236400			
AV8460.D	Water Blank 071604-2	239595	1824221	1083644	100	103	92
AV8461.D	0-024-0056	240032	1796256	1068361	99	104	93
AV8462.D	0-024-0048	238413	1774237	1066191	100	104	92
AV8463.D	0-024-0049	239619	1778859	1058640	101	104	93
AV8465.D	0-024-0051	236118	1753728	1058389	101	103	91
AV8466.D	0-024-0052	234616	1781169	1063248	101	103	92
AV8467.D	0-024-0053	235573	1774202	1063910	102	103	92
AV8468.D	0-024-0054	237288	1774328	1069615	100	104	92
AV8469.D	0-024-0055	236500	1782259	1066772	102	104	92
AV8470.D	0-024-0057	235500	1767471	1067839	101	103	92
AV8471.D	27030	233618	1781335	1062319	101	104	92
AV8472.D	0-024-0068	238215	1782210	1070574	99	103	92
AV8473.D	0-024-0067	236215	1773386	1063098	101	104	92
AV8474.D	0-024-0060	236086	1768647	1062929	98	104	92
Cal Check Area	AV8478.D	274024	2060760	1283720			
AV8479.D	Water Blank 071904-1	260820	1981295	1167775	101	103	92
AV8480.D	0-024-0061	251884	1923529	1145088	101	103	91
AV8481.D	0-024-0063	240554	1859675	1117626	102	102	90
AV8482.D	0-024-0064	240264	1857325	1111971	102	103	90
AV8483.D	0-024-0065	240672	1843949	1110375	100	103	91
AV8484.D	0-024-0066	241870	1843265	1101082	100	104	90
AV8485.D	0-024-0069	240684	1846269	1111402	99	103	91
AV8486.D	0-024-0070	254693	1870254	1117728	97	103	90
AV8487.D	0-024-0072	252204	1859638	1111962	97	103	90
AV8488.D	0-024-0073	249199	1859389	1103165	97	103	90
AV8489.D	0-024-0074	251578	1864632	1106675	98	104	90
AV8490.D	0-024-0075	252351	1851161	1106075	97	104	90
AV8491.D	0-024-0076	254970	1878045	1104300	98	104	91
AV8492.D	0-024-0078	251256	1846563	1107695	97	102	89
AV8493.D	0-024-0079	240774	1822783	1093771	99	103	89
AV8494.D	0-024-0080	237857	1810649	1084426	100	103	89

IS 1 = Bromochloromethane      Surr. 1 = 1,2-Dichloroethane-d4      76 - 114  
 IS 2 = 1,4-Difluorobenzene      Surr. 2 = Toluene-d8      88 - 110  
 IS 3 = Chlorobenzene-d5      Surr. 3 = p-Bromofluorobenzene      86 - 115

Table 2.1 (cont.) Results of the Internal Standard Areas and Surrogate Percent Recoveries for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
Cal Check Area	AV8499.D	261740	2014300	1248730			
AV8501.D	Water blank 072004-2	234666	1830243	1087133	101	103	93
AV8502.D	0-024-0062	233483	1806712	1082840	100	102	93
AV8503.D	0-024-0071	244538	1814292	1088053	97	103	93
AV8505.D	0-024-0050	234282	1784775	1076301	99	102	93
AV8506.D	0-024-0081	236046	1790877	1077600	100	103	93
AV8508.D	0-024-0062 ms	233956	1874465	1108592	102	101	92
AV8509.D	0-024-0062 msd	230723	1870532	1107095	102	101	92
AV8510.D	0-024-0050 ms	234841	1891257	1114659	102	101	91
AV8511.D	0-024-0050 msd	232123	1858919	1097077	102	102	93
AV8512.D	0-024-0071 ms	245729	1869682	1107628	99	101	92
AV8513.D	0-024-0071 msd	246832	1859519	1100472	99	102	92
AV8514.D	0-024-0070/2x	241396	1768477	1060308	97	103	92
AV8515.D	0-024-0074/10x	238408	1769941	1050234	99	104	94
Cal Check Area	AV8519.D	230042	1668290	1016970			
AV8521.D	Water blank 072004-4	213057	1571542	903927	100	104	93
AV8522.D	0-024-0097	207107	1541882	891554	99	105	93
AV8523.D	0-024-0083	206085	1533357	884668	100	105	93
AV8524.D	0-024-0084	207480	1527260	881956	98	105	93
AV8525.D	0-024-0085	201915	1502252	873465	99	105	93
AV8526.D	0-024-0086	204599	1496565	875003	99	104	93
AV8527.D	0-024-0087	206735	1505007	874139	100	105	92
AV8528.D	0-024-0088	203367	1489880	871844	99	104	91
AV8529.D	0-024-0089	201077	1475819	858965	99	105	93
AV8530.D	0-024-0090	204338	1486050	864541	99	105	92
AV8531.D	0-024-0092	201179	1470506	857409	99	104	92
AV8532.D	0-024-0093	202680	1476004	854216	100	105	93
AV8533.D	0-024-0094	196265	1472144	853188	100	105	93
AV8534.D	0-024-0095	201210	1474072	860235	99	105	94
AV8535.D	0-024-0096	201561	1471352	851363	99	105	93
Cal Check Area	AV8539.D	271791	1955790	1191180			
AV8540.D	Water blank 072104-1	257186	1873639	1081432	102	103	94
AV8544.D	0-024-0091	236987	1701896	995615	105	103	93
AV8545.D	0-024-0077	255230	1762266	1010141	102	103	93
AV8546.D	0-024-0082	251669	1709645	987893	102	104	94
AV8547.D	0-024-0077/20x	245348	1691278	983930	103	103	93
AV8548.D	0-024-0082/5x	247262	1732792	1004065	103	103	93
AV8549.D	0-024-0076/20x	245092	1701803	982971	102	104	94
AV8550.D	0-024-0091 ms	240730	1793308	1027050	104	102	92
AV8551.D	0-024-0091 msd	242838	1845511	1054887	102	102	91
AV8552.D	0-024-0077 ms	258722	1899461	1073866	98	103	92
AV8553.D	0-024-0077 msd	259035	1891861	1076651	99	102	92

IS 1 = Bromochloromethane      Surr. 1 = 1,2-Dichloroethane-d4      76 - 114  
IS 2 = 1,4-Difluorobenzene      Surr. 2 = Toluene-d8      88 - 110  
IS 3 = Chlorobenzene-d5      Surr. 3 = p-Bromofluorobenzene      86 - 115

**Table 2.2 Results of the MS/MSD Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site**

Sample ID: 0-024-0002

Compound Name	Sample	MS	MSD	MS	MSD	MS %	MSD %	QC Limits		
	Conc.	Spike	Spike					Rec.	Rec.	RPD
	µg/L	µg/L	µg/L	µg/L	µg/L					
1,1-Dichloroethene	U	50.0	50.0	66.6	70.6	133	141	6	14	61 - 145
Benzene	U	50.0	50.0	47.3	48.2	95	96	2	11	76 - 127
Trichloroethene	U	50.0	50.0	45.3	47.3	91	95	4	14	71 - 120
Toluene	U	50.0	50.0	52.0	53.6	104	107	3	13	76 - 125
Chlorobenzene	U	50.0	50.0	52.0	52.5	104	105	1	13	75 - 130

Sample ID: 0-024-0003

Compound Name	Sample	MS	MSD	MS	MSD	MS %	MSD %	QC Limits		
	Conc.	Spike	Spike					Rec.	Rec.	RPD
	µg/L	µg/L	µg/L	µg/L	µg/L					
1,1-Dichloroethene	U	50.0	50.0	72.6	71.5	145	143	2	14	61 - 145
Benzene	U	50.0	50.0	49.1	49.3	98	99	0	11	76 - 127
Trichloroethene	U	50.0	50.0	47.8	48.0	96	96	1	14	71 - 120
Toluene	U	50.0	50.0	53.7	54.1	107	108	1	13	76 - 125
Chlorobenzene	U	50.0	50.0	52.6	53.0	105	106	1	13	75 - 130

Sample ID: 0-024-0014

Compound Name	Sample	MS	MSD	MS	MSD	MS %	MSD %	QC Limits		
	Conc.	Spike	Spike					Rec.	Rec.	RPD
	µg/L	µg/L	µg/L	µg/L	µg/L					
1,1-Dichloroethene	U	50.0	50.0	59.7	61.5	119	123	3	14	61 - 145
Benzene	U	50.0	50.0	54.7	55.8	109	112	2	11	76 - 127
Trichloroethene	U	50.0	50.0	53.0	54.1	106	108	2	14	71 - 120
Toluene	U	50.0	50.0	61.7	62.5	123	125	1	13	76 - 125
Chlorobenzene	U	50.0	50.0	60.2	60.9	120	122	1	13	75 - 130

Table 2.2 (cont.) Results of the MS/MSD Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site

Sample ID: 0-024-0016

Compound Name	Sample Conc. µg/L	MS	MSD	MS Conc. µg/L	MSD Conc. µg/L	MS % Rec.	MSD % Rec.	QC Limits		
		Spike Added µg/L	Spike Added µg/L					RPD	RPD	% Rec.
1,1-Dichloroethene	U	50.0	50.0	64.3	62.0	129	124	4	14	61 - 145
Benzene	U	50.0	50.0	56.7	57.1	113	114	1	11	76 - 127
Trichloroethene	U	50.0	50.0	55.1	55.1	110	110	0	14	71 - 120
Toluene	U	50.0	50.0	63.4	63.5	127 *	127 *	0	13	76 - 125
Chlorobenzene	U	50.0	50.0	61.5	61.7	123	123	0	13	75 - 130

Sample ID: 0-024-0017

Compound Name	Sample Conc. µg/L	MS	MSD	MS Conc. µg/L	MSD Conc. µg/L	MS % Rec.	MSD % Rec.	QC Limits		
		Spike Added µg/L	Spike Added µg/L					RPD	RPD	% Rec.
1,1-Dichloroethene	U	50.0	50.0	63.0	49.7	126	100	24 *	14	61 - 145
Benzene	U	50.0	50.0	56.0	56.1	112	112	0	11	76 - 127
Trichloroethene	U	50.0	50.0	54.2	54.2	108	108	0	14	71 - 120
Toluene	U	50.0	50.0	63.2	62.8	126 *	126 *	1	13	76 - 125
Chlorobenzene	U	50.0	50.0	61.3	61.1	123	122	0	13	75 - 130

Sample ID: 0-024-0062

Compound Name	Sample Conc. µg/L	MS	MSD	MS Conc. µg/L	MSD Conc. µg/L	MS % Rec.	MSD % Rec.	QC Limits		
		Spike Added µg/L	Spike Added µg/L					RPD	RPD	% Rec.
1,1-Dichloroethene	U	50.0	50.0	80.5	79.0	161 *	158 *	2	14	61 - 145
Benzene	U	50.0	50.0	53.7	52.8	107	106	2	11	76 - 127
Trichloroethene	U	50.0	50.0	56.2	54.6	112	109	3	14	71 - 120
Toluene	U	50.0	50.0	60.5	59.2	121	118	2	13	76 - 125
Chlorobenzene	U	50.0	50.0	58.9	58.0	118	116	2	13	75 - 130

**Table 2.2 (cont.) Results of the MS/MSD Analysis for VOC in Water  
WA # 0-024 Cayuga County Westbay Sampling Site**

Sample ID: 0-024-0050

Compound Name	Sample	MS	MSD	MS Conc. µg/L	MSD Conc. µg/L	MS % Rec.	MSD % Rec.	QC Limits		
	Conc.	Spike	Spike					RPD	RPD	% Rec.
1,1-Dichloroethene	U	50.0	50.0	73.7	75.2	147	*	150	*	2
Benzene	U	50.0	50.0	52.1	53.6	104		107	3	11
Trichloroethene	U	50.0	50.0	54.1	55.6	108		111	3	14
Toluene	U	50.0	50.0	58.7	60.4	117		121	3	13
Chlorobenzene	U	50.0	50.0	57.0	58.9	114		118	3	13

Sample ID: 0-024-0071

Compound Name	Sample	MS	MSD	MS Conc. µg/L	MSD Conc. µg/L	MS % Rec.	MSD % Rec.	QC Limits		
	Conc.	Spike	Spike					Conc.	RPD	% Rec.
1,1-Dichloroethene	U	50.0	50.0	76.3	73.6	153	*	147	*	4
Benzene	U	50.0	50.0	53.3	52.9	107		106	1	11
Trichloroethene	8.8	50.0	50.0	65.8	63.4	114		109	4	14
Toluene	U	50.0	50.0	60.0	59.1	120		118	2	13
Chlorobenzene	U	50.0	50.0	58.0	57.4	116		115	1	13

Sample ID: 0-024-0091

Compound Name	Sample	MS	MSD	MS Conc. µg/L	MSD Conc. µg/L	MS % Rec.	MSD % Rec.	QC Limits		
	Conc.	Spike	Spike					Conc.	RPD	% Rec.
1,1-Dichloroethene	U	50.0	50.0	80.6	60.2	161	*	120	29	*
Benzene	U	50.0	50.0	51.2	51.6	102		103	1	11
Trichloroethene	U	50.0	50.0	51.9	52.5	104		105	1	14
Toluene	U	50.0	50.0	57.6	57.9	115		116	1	13
Chlorobenzene	U	50.0	50.0	56.6	56.7	113		113	0	13

Sample ID: 0-024-0077

Compound Name	Sample	MS	MSD	MS Conc. µg/L	MSD Conc. µg/L	MS % Rec.	MSD % Rec.	QC Limits		
	Conc.	Spike	Spike					Conc.	RPD	% Rec.
1,1-Dichloroethene	2	50	50	56.6	57.7	109	111	2	14	61 - 145
Benzene	U	50	50	50.1	51	100	102	2	11	76 - 127
Trichloroethene	1.2	50	50	52	52.9	102	103	2	14	71 - 120
Toluene	U	50	50	56.1	56.9	112	114	2	13	76 - 125
Chlorobenzene	U	50	50	55	55.6	110	111	1	13	75 - 130

REAC, Edison, NJ

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EPA Contract-68

EP-C-04-0

## **CHAIN OF CUSTODY RECORD**

Project Name: Canyon Cr. Westray Sampling  
Project Number: 19 0-024  
LM Contact: R. Woodruff Phone: 609 865-9317

0-024-0001

14919 KW

No:

**Sheet 01 of 01**(Do not copy)  
(for addnl. samples use new form)

7/9/09

## Sample Identification

### **Analyses Requested**

### **Matrix:**

**Special Instructions:**

#### SAMPLES TRANSFERRED FROM

**CHAIN OF CUSTODY #:**

A- Air	PW- Potable Water
AT-Animal Tissue	S- Soil
DL- Drum Liquids	SD- Sediment
DS- Drum Solids	SL- Sludge
GW- Groundwater	SW- Surface Water
O- Oil	TX-TCLP Extract
PR-Product	W- Water
PT-Plant Tissue	X- Other

0024 DAR-09/15/04

X- Other  
GWT = ground Water

REAC, Edison  
(732) 321-4206  
EPA Contract 68-C99-223  
EP-C-04-032

**CHAIN OF CUSTODY RECORD**

Project Name: Cayuga Co. West Bay Sampling  
Project Number: O-044  
LM Contact: R. Woodruff Phone: 609 865-4317

No: ~~11-11-11~~  
**82**  
Sheet 01 of 01 (Do not copy)  
(for addnl. samples use new form)

7/26/04

### **Sample Identification**

### **Analyses Requested**

REAC#	Sample No	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	VOAs		
0307	0-024-0008	EPA-6 (D3)	GW	7/8/04	3	40 ml/vial / 4°C	X		
0310	09	EPA-6 (D2)					X		
0311	10	EPA-6 (D1)					X		
0312	11	EPA-6 (i2)					X		
0313	12	EPA-10 (D3)					X		
0314	13	EPA-10 (D2)					X		
0315	14	EPA-10 (D1)					X		
0316	15	EPA-10 (RB)	W				X		
0317	16	EPA-10 (i2)	GW				X		
0318	17	EPA-10 (i1)					X		
0319	18	EPA-10 (S3)					X		
0320	↓ ↓ ↓	19	EPA-10 (QA-MP)	↓	↓	↓	X		
	↓	20	EPA-6 (i2)				X		
0321	0-024-0031	EPA-8 (D3)	GW	7/9/04	3	40 ml/vial / 4°C	X		
0322	25	EPA-8 (D2)					X		
0324	29	EPA-8 (D1b)					X		
0325	30	EPA-8 (D1a)					X		
0326	31	EPA-8 (RB)					X		
0327	↓ ↓ ↓	32	EPA-8 (I2)	↓	↓	↓	X		

Matrix

A- Air	PW- Potable Water
AT-Animal Tissue	S- Soil
DL- Drum Liquids	SD- Sediment
DS- Drum Solids	SL- Sludge
GW- Groundwater	SW- Surface Water
O- Oil	TX-TCLP Extract
PR-Product	W- Water
PT-Plant Tissue	X- Other

**Special Instructions:**

Special Instructions:

N.B.  
Two Sets of 0008 - in Land (6 sets) #  
no sets of 0021 - in Land

#### SAMPLES TRANSFERRED FROM

**CHAIN OF CUSTODY #:**

9/15/04



REAC, Edison  
(732) 321-4200  
EPA Contract 68-C99-223  
EP-C-04-038

**CHAIN OF CUSTODY RECORD**

Project Name: Cayuga Co. West Bay Sampling  
Project Number: 0-024  
LM Contact: R. Wodzinski Phone: 609 865-9317

0-02 00004  
No: 14920Kw  
Sheet 01 of 01 (Do not copy)  
(for addnl. samples use new form)

### Sample Identification

### **Analyses Requested**

REAC#	Sample No	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	VOAs			
0332	0-024-0038	CY 204 (PPD1B)	GW	7/12/2004	3	40ml vial	4°C			
0333	0039	CY 204 (D1A)								
0334	0040	CY 204 (i2)								
0335	0041	CY 204 (S1)	▼							
0336	0042	CY 205 (QA-RB)	W							
0337	0043	CY 205 (PPD1B)	GW							
0338	0044	CY 205 (D1A)								
0339	0045	CY 205 (D1A dup)								
0340	0046	CY 205 (i2B)								
0341	0047	TR		▼	▼	▼	▼	▼	▼	RW

Matrix

A- Air	PW- Potable Water
AT-Animal Tissue	S- Soil
DL- Drum Liquids	SD- Sediment
DS- Drum Solids	SL- Sludge
GW- Groundwater	SW- Surface Water
O- Oil	TX-TCLP Extract
PR-Product	W- Water
PT- Plant Tissue	Y- Other

**Special Instructions:**

## SAMPLES TRANSFERRED FROM

**CHAIN OF CUSTODY #:**

0024 DAR-09/15/04

REAC, Edison, NJ  
EPA Contract #: EP-C-04-032

No: 0-024-0005

Cooler #:

Lab:

Lab Phone:

## CHAIN OF CUSTODY RECORD

Site #: 024

Contact Name: R. Woodruff  
Contact Phone: 609 865-9317

7/15/04

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
0343	0-024-0048	EPA-7(QA-MP)	VOAs	Ground Water	7/13/2004	3	40 ml vial	4 C	
0344	0-024-0049	EPA-7(D3)	VOAs	Ground Water	7/13/2004	3	40 ml vial	4 C	
0345	0-024-0050	EPA-7(D3 dup)	VOAs	Ground Water	7/13/2004	5	40 ml vial	4 C	Y
0346	0-024-0051	EPA-7(D2)	VOAs	Ground Water	7/13/2004	3	40 ml vial	4 C	
0347	0-024-0052	EPA-7(D1)	VOAs	ground water	7/13/2004	3	40 ml vial	4 C	
0348	0-024-0053	EPA-7(i2)	VOAs	Ground Water	7/13/2004	3	40 ml vial	4 C	
0349	0-024-0054	EPA-7(i1)	VOAs	Ground Water	7/13/2004	3	40 ml vial	4 C	
0350	0-024-0055	EPA-7(S1)	VOAs	Ground Water	7/13/2004	3	40 ml vial	4 C	
0351	0-024-0056	EPA-7(QA-RB)	VOAs	Water	7/13/2004	3	40 ml vial	4 C	

Special Instructions:	SAMPLES TRANSFERRED FROM	
	CHAIN OF CUSTODY #	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all/analytes	R. Woodruff	7/14/04	Zan KE	7/15/04	11:00	911/VR	Ron	7/15/04	J. Meusch	7-15-04	11:15

## CHAIN OF CUSTODY RECORD

REAC, Edison, NJ  
EPA Contract #: EP-C-04-032

Site #: 024  
Contact Name:  
Contact Phone:

No: 0-024-0005  
Cooler #:  
Lab:  
Lab Phone:

7/15/04

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservativ e	MS/MSD
0512	0-024-0057	EPA-6(QA-MP)	VOAs	Ground Water	7/13/2004	3	40 ml vial	4 C	
0553	0-024-0058	TB	VOAs	Filtered Water	7/13/2004	3	40 ml vial	4 C	

HW

055

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all/analyzed	R. Woodyard	7/14/04	J.W.	7/15/04	10:10	junk	m/w	7/15/04	J. Nelson	7-15-04	11:15



REAC, Edison  
(732) 321-4200  
EPA Contract 68-C99-223  
NW EP-C-04-032

CHAIN OF CUSTODY RECORD  
Project Name: Congress Co. Wellbase Sampling  
Project Number: 0350-024  
LM Contact: R. Woodruff Phone: 609 865-9317

000006  
No: 14824 NW  
Sheet 01 of 01 (Do not copy)  
(for addnl. samples use new form)

7/15/04

Sample Identification

Analyses Requested

REAC#	Sample No	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	VOA1					
0357	0-024-0060	EPA-4 (QA-RR)	W	7/14/04	3	4mL vials/4°C						
0355	-0061	EPA-4 (D3)	GW		3							
0356	-0062	EPA-4 (D3-DUP)			5 *							
0357	-0063	EPA-4 (D2)			3							
0358	-0064	EPA-4 (D1)			3							
0359	-0065	EPA-4 (i2)			3							
0360	✓ - ✓ - 0066	EPA-4 (SI)			3							
0361	✓ - ✓ - 0067	EPA-4 (QA-MP)			3							
0362	✓ - ✓ - 0068	TB	W	✓	3	✓						

Matrix:

A- Air  
AT-Animal Tissue  
DL- Drum Liquids  
DS- Drum Solids  
GW- Groundwater  
O- Oil  
PR-Product  
PT-Plant Tissue

PW- Potable Water  
S- Soil  
SD- Sediment  
SL- Sludge  
SW- Surface Water  
TX-TCLP Extract  
W- Water  
X- Other

Special Instructions:

\* MS/MSD

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #:

057  
0024 PAR-09/15/04

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
all analyzed	R. Woodruff	7/15/04	J. Meier	7/15/04	0750	all analyzed	R. Woodruff	7/15/04	J. Meier	7/15/04	0750
all analyzed	R. Woodruff	7/15/04	J. Meier	7/15/04	1600						

## CHAIN OF CUSTODY RECORD

No: 0-024-0007

REAC, Edison, NJ  
 EPA Contract #: EP-C-04-032  
 Cayuga Co. Westbay Sampling

Site #: 024

Cooler #:  
 Lab: REAC  
 Lab Phone:

Contact Name: K. Woodruff  
 Contact Phone: 609-865-9317

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservativ e	MS/MSD
0380	0-024-0069	EPA-2(QA-RB)	VOAs	Rinsate Blank	7/15/2004	3	40 ml vial	4 C	
0381	0-024-0070	EPA-2(D3)	VOAs	Ground Water	7/15/2004	3	40 ml vial	4 C	
0382	0-024-0071	EPA-2(D-3)dup	VOAs	Ground Water	7/15/2004	5	40 ml vial	4 C	Y
0383	0-024-0072	EPA-2(D2)	VOAs	Ground Water	7/15/2004	3	40 ml vial	4 C	
0384	0-024-0073	EPA-2(D1)	VOAs	Ground Water	7/15/2004	3	40 ml vial	4 C	
0385	0-024-0074	EPA-2(I2)	VOAs	Ground Water	7/15/2004	3	40 ml vial	4 C	
0386	0-024-0075	EPA-2(QA-MP)	VOAs	Ground Water	7/15/2004	3	40 ml vial	4 C	
0387	0-024-0076	EPA-1(D3)	VOAs	Ground Water	7/15/2004	3	40 ml vial	4 C	
0388	0-024-0077	EPA-1(D3) dup	VOAs	Ground Water	7/15/2004	5	40 ml vial	4 C	Y

058

Special Instructions:

## SAMPLES TRANSFERRED FROM

## CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all/analyse	K. Woodruff	7/18/04	Challahan	7/18/04	3:00	all/analyse	J. Khan	7/19/04	J. Khan	7/19/04	4:00
all/vis	mm	7/19/04	J. Khan	7-19-04	10:15						

**CHAIN OF CUSTODY RECORD**

No: 0-024-0007

REAC, Edison, NJ  
 EPA Contract #: EP-C-04-032  
 Cayuga Co. Westbay Sampling

Site #: 024

Contact Name: K. Woodruff  
 Contact Phone: 609-865-9317

Cooler #:  
 Lab: REAC  
 Lab Phone:

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservativ e	MS/MSD
0387	0-024-0078	EPA-1(D2)	VOAs	Ground Water	7/15/2004	3	40 ml vial	4 C	
0390	0-024-0079	EPA-1(D1)	VOAs	Ground Water	7/15/2004	3	40 ml vial	4 C	
0391	0-024-0080	EPA-1(S3)	VOAs	Ground Water	7/15/2004	3	40 ml vial	4 C	
0392	0-024-0081	EPA-1(S2)	VOAs	Ground Water	7/15/2004	3	40 ml vial	4 C	
0393	0-024-0082	EPA-1(QA-MP)	VOAs	Ground Water	7/15/2004	3	40 ml vial	4 C	

**059**

Special Instructions:

**SAMPLES TRANSFERRED FROM****CHAIN OF CUSTODY #**

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Self Analysis	K. Woodruff	7/18/04	Phila. Mann	7/18/04	3:pm	Analysed	Phila. Mann.	7/19/04	for AA	7/19/04	4:15
7/17/04	2nd R	7/17/04	G. Meier	7-19-04	10:15						

REAC, Edison, NJ

(732) 321-4200

EPA Contract 68-099-223

EP-C-04-032

CHAIN OF CUSTODY RECORD

Project Name: Cayuga Co. Westby Sampling  
 Project Number: JG 0-024  
 LM Contact: K Woodruff Phone: 609 865-9317

0-024-0008

14925

No:

Sheet 01 of 01 (Do not copy)  
(for addnl. samples use new form)Sample IdentificationAnalyses Requested

REAC#	Sample No	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	VOA				
0373	0-024-0083	EPA-1 (QA-RR)	W	7/15/04	3	Homol. 1/4c	X				
0374	- - 0084	EPA-5 (QA-RR)	W	7/16/04	3		X				
0375	- - 0085	EPA-5 (D3)	GW		3		X				
0376	- - 0086	EPA-5 (D3) dup	GW		3		X				
0377	- - 0087	EPA-5 (D2)	GW		3		X				
0378	- - 0088	EPA-5 (D1)	GW		3		X				
0379	- - 0089	EPA-5 (QA-MP)	GW		3		X				
0380											
Rmw											
060											

## Matrix:

A- Air  
 AT-Animal Tissue  
 DL- Drum Liquids  
 DS- Drum Solids  
 GW- Groundwater  
 O- Oil  
 PR-Product  
 PT-Plant Tissue

PW- Potable Water  
 S- Soil  
 SD- Sediment  
 SL- Sludge  
 SW- Surface Water  
 TX-TCLP Extract  
 W- Water  
 X- Other

## Special Instructions:

SAMPLES TRANSFERRED FROMCHAIN OF CUSTODY #:

0024-DAR-09/15/04

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
all analyses	N. Woodruff	7/18/04	✓ J. Meiss	7/18/04	3:00pm	4:15pm	✓ K. May	7/18/04	J. M.	7/19/04	9:00am
g-11 VMA	J. M.	7/19/04	J. Meiss	7-19-04	10:00						

REAC, Edison  
(732) 321-4200

EPA Contract 68-000-223

KW  
FP-C-04-032

CHAIN OF CUSTODY RECORD

Project Name: Cayuga Co. Westbay Sampling  
Project Number: 0-024  
LM Contact: W Woodruff Phone: 609 865-9317

0-0 0009

14026 KW

No: Sheet 01 of 01 (Do not copy)  
(for addnl. samples use new form)

7/20/04

Sample Identification

Analyses Requested

REAC#	Sample No	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	VOAc					
6394	0-024-0090	EPA-9(D3)	GW	7/19/04	3	Nonsterile/4°C	X					
6395	- - 0091	EPA-9(D3-dup)	GW		5 *			X				
6396	- - 0092	EPA-9(D2)	GW		3			X				
6397	- - 0093	EPA-9(D1)	GW		3			X				
6398	- - 0094	EPA-9(i2)	GW		3			X				
6399	- - 0095	EPA-9(i1)	GW		3			X				
6400	- - 0096	EPA-9(GA-MP)	GW		3			X				
6401	↓ - ↓ - 0097	TB	W	↓	3	↓		X				

R.W.

KW

061

Matrix:

A- Air  
AT-Animal Tissue  
DL- Drum Liquids  
DS- Drum Solids  
GW- Groundwater  
O- Oil  
PR-Product  
PT-Plant Tissue

PW- Potable Water  
S- Soil  
SD- Sediment  
SL- Sludge  
SW- Surface Water  
TX-TCLP Extract  
W- Water  
X- Other

\* MS/MSD

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #:

061  
CAR 09/15/04

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
all analyzed	W Woodruff	7/20/04	JK	7/20/04	12:57	all 100%	JK	7/20/04	JL	7/20/04	1:00